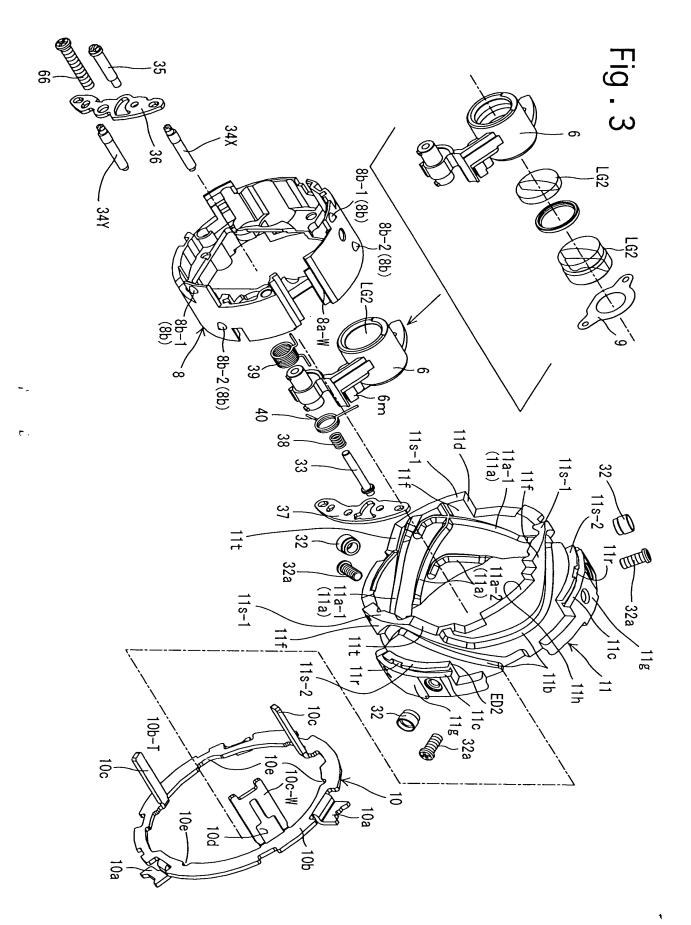
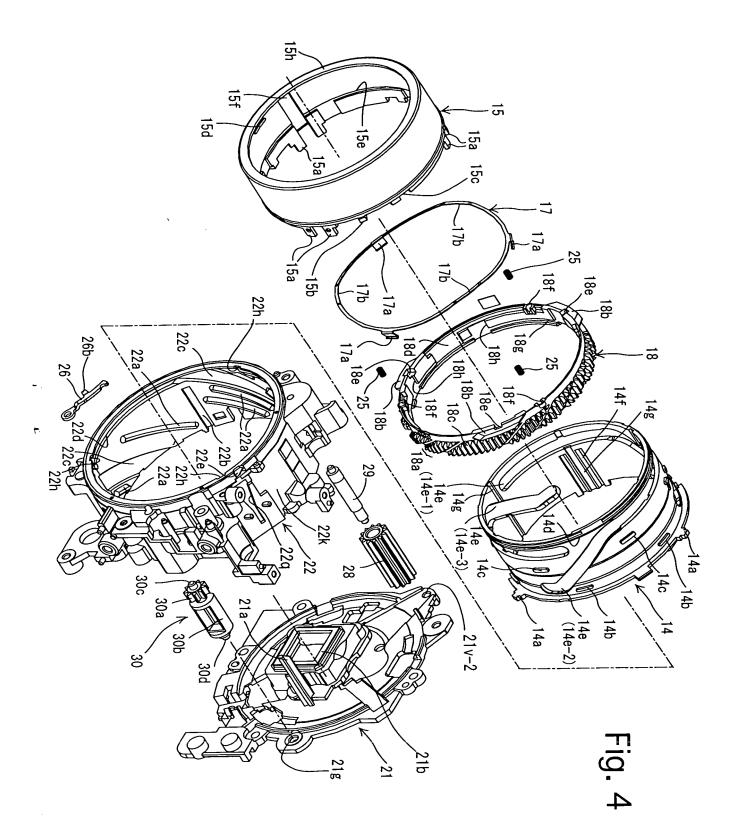


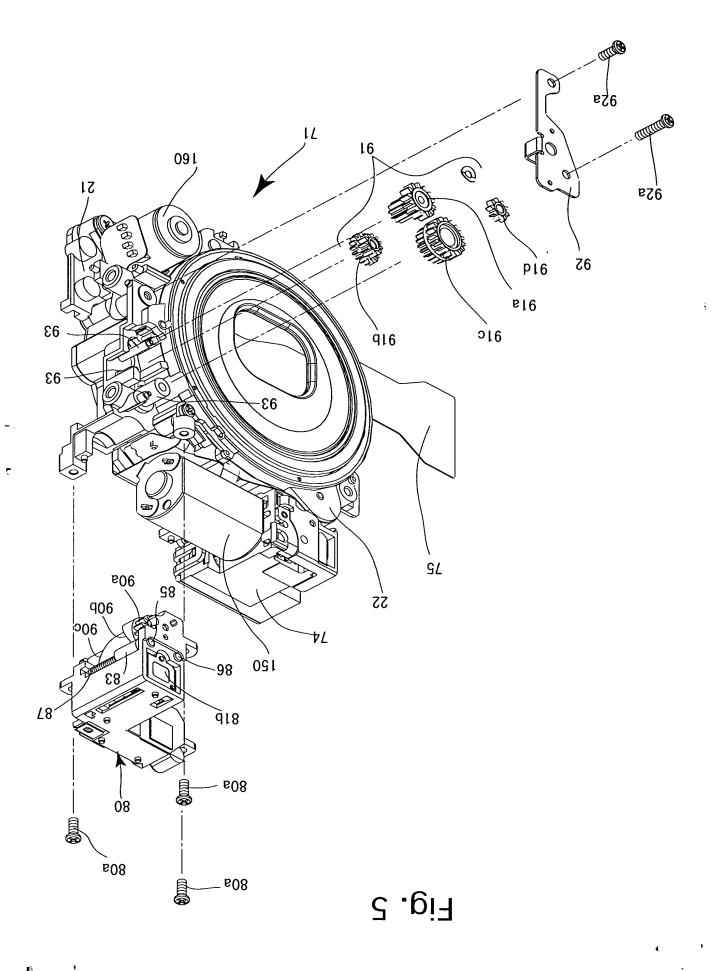
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<u></u> <u>[61</u> <u>[6</u> ם 624 2c 26 12 -12s-2 13b 13a 13a 芯 13a



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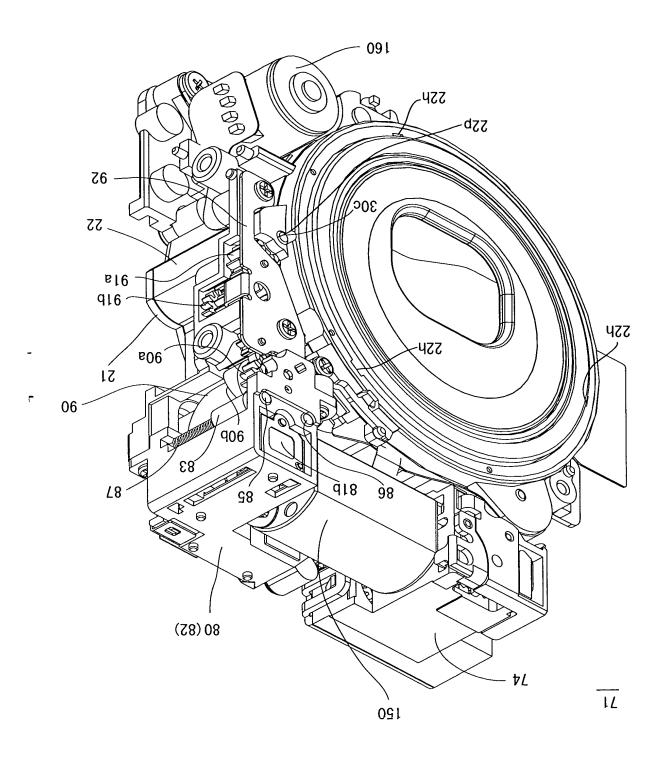
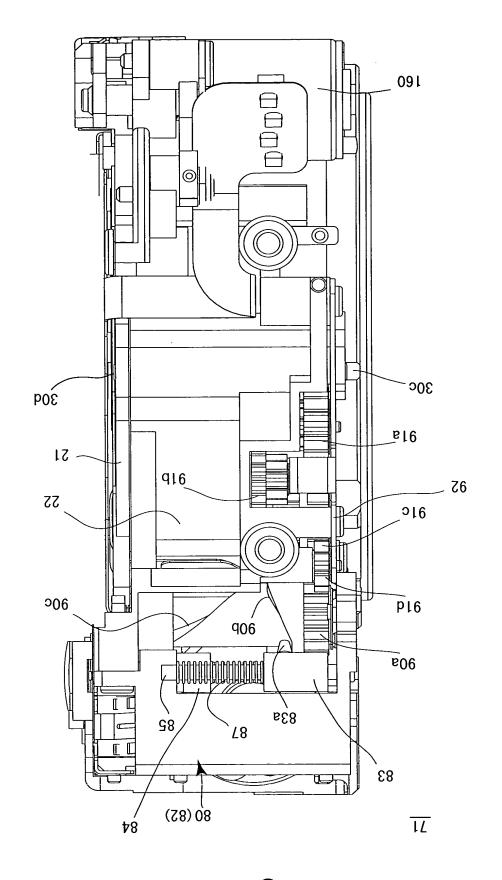
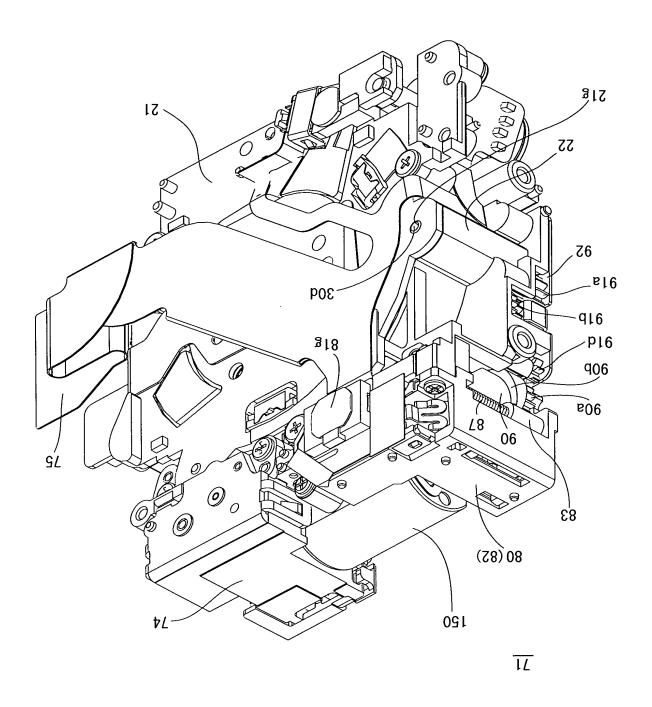


Fig. 6

Fig. 7





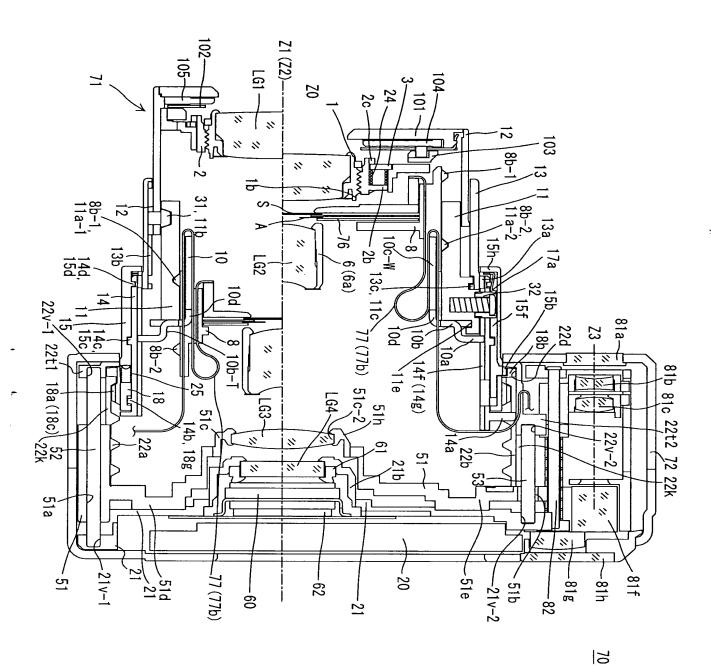
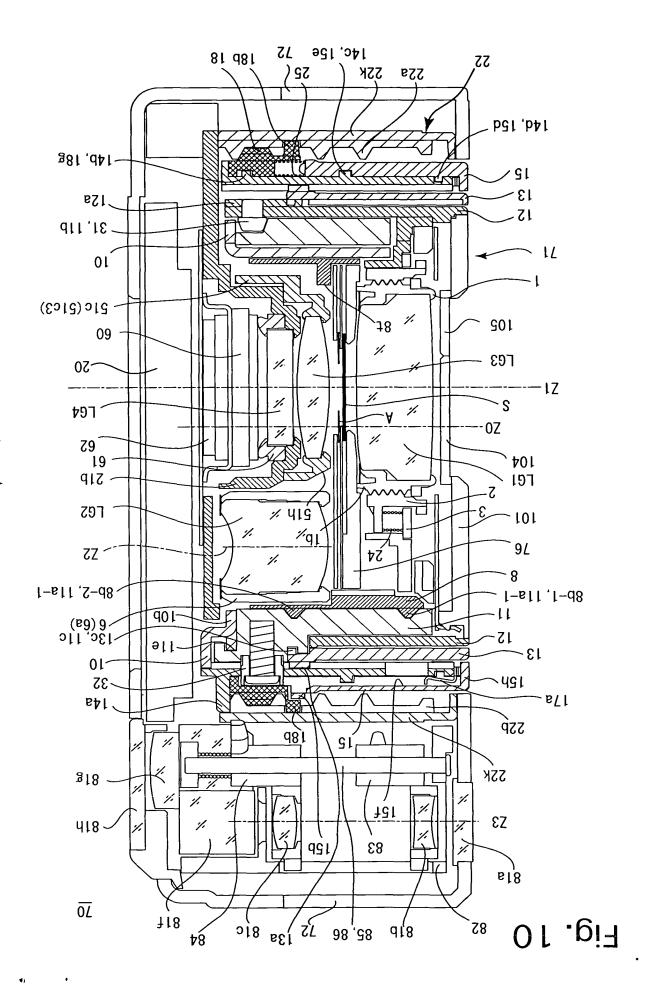
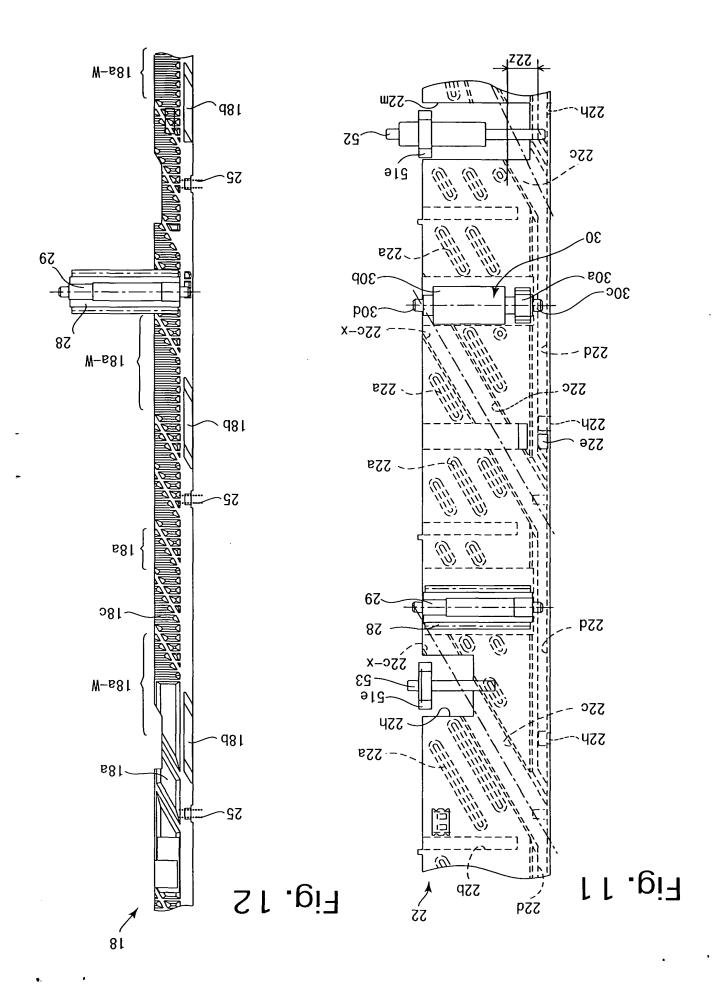
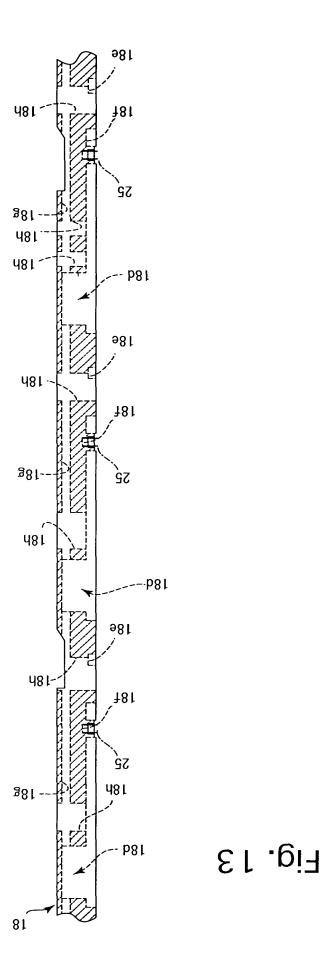
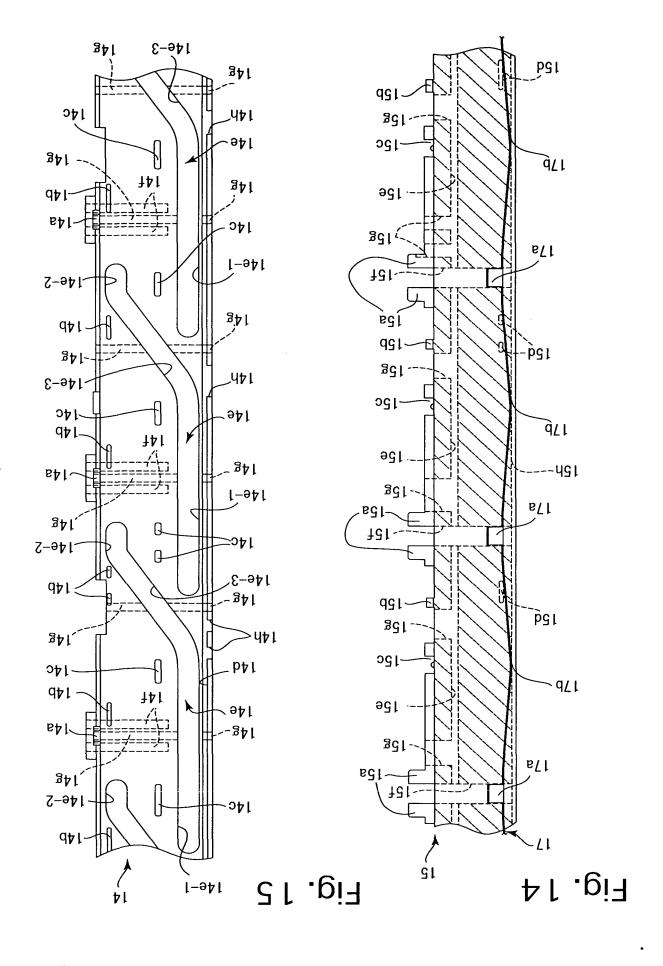


Fig. 9



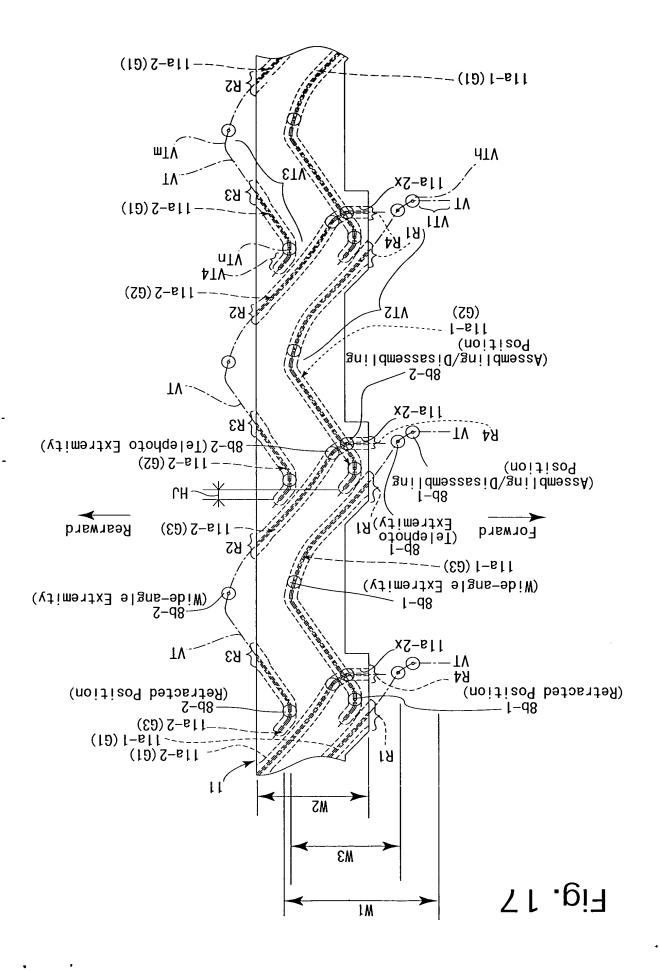


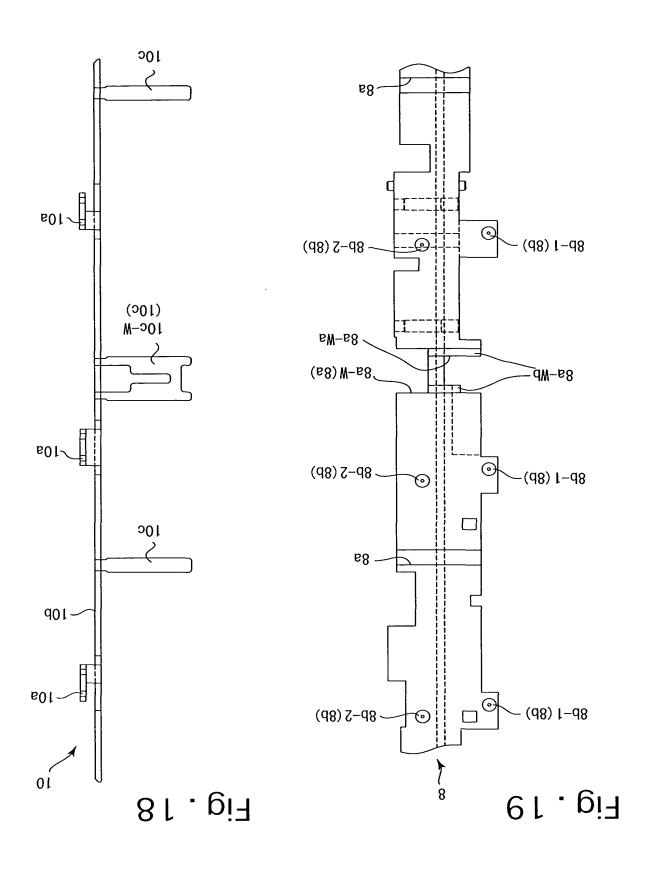




-X-q11 Y-dir ۹۱۱ -111 311 111 11s-2 լ_sլլ 9||-----35 -111 32a 11P-X-ΕĎΣ Y-011 110 411 Z-qll 11s-2 **,**†11 ոլլ 9[[-----1-811 મા BIT -35 111 328 -- ED-5 X-d11 J-d11 411 Y-dii pll 111 - **q**|| 911----116 /1-s11 .32 .11g 118-2 32a) 111 EĎS

Fig. 16





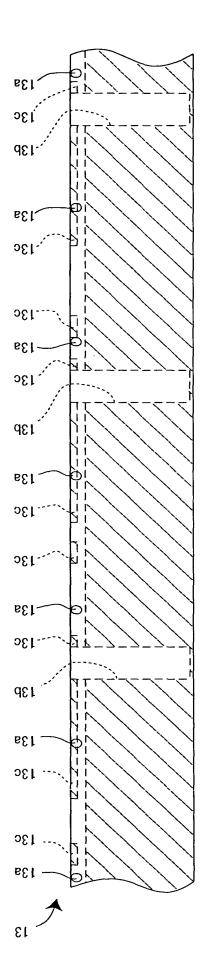
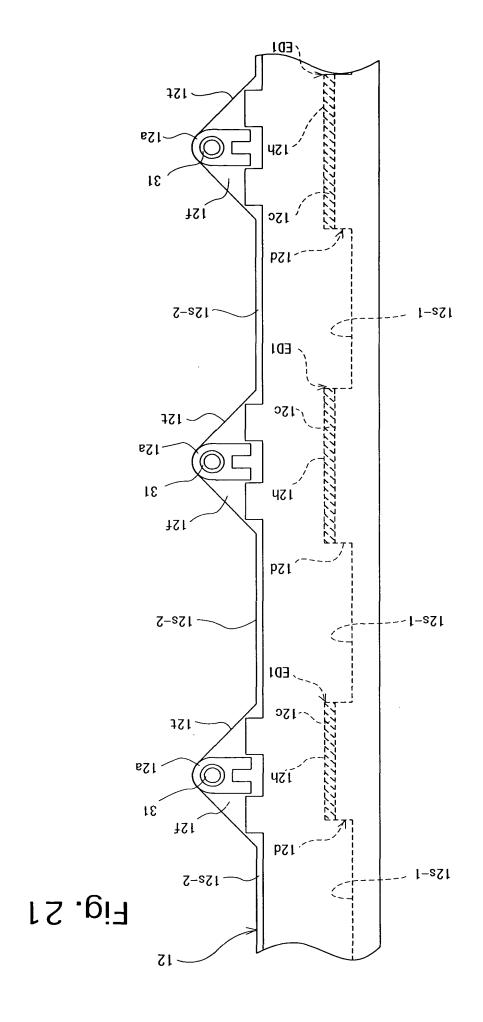
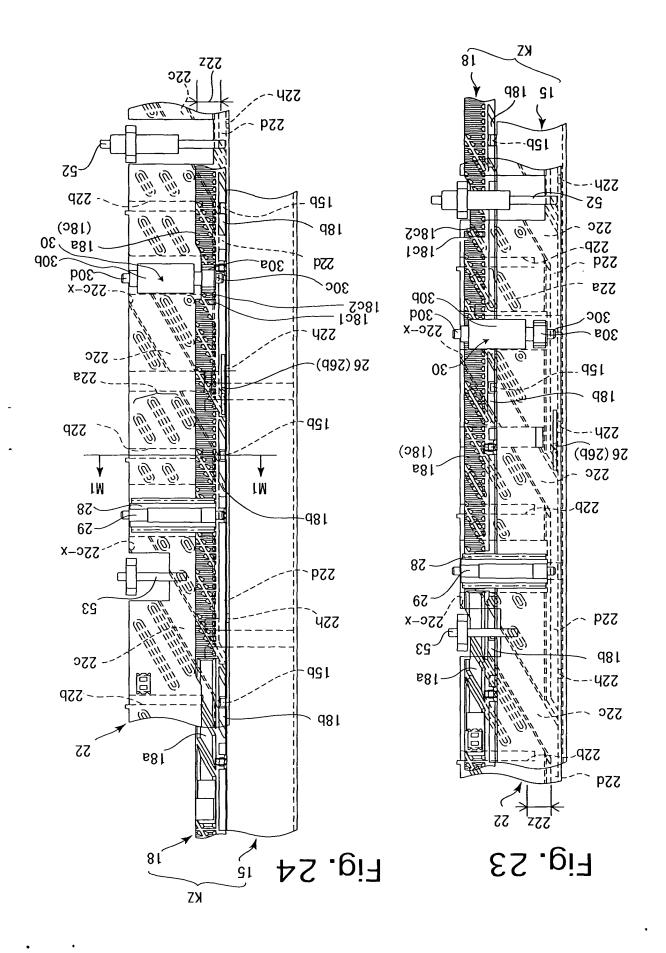
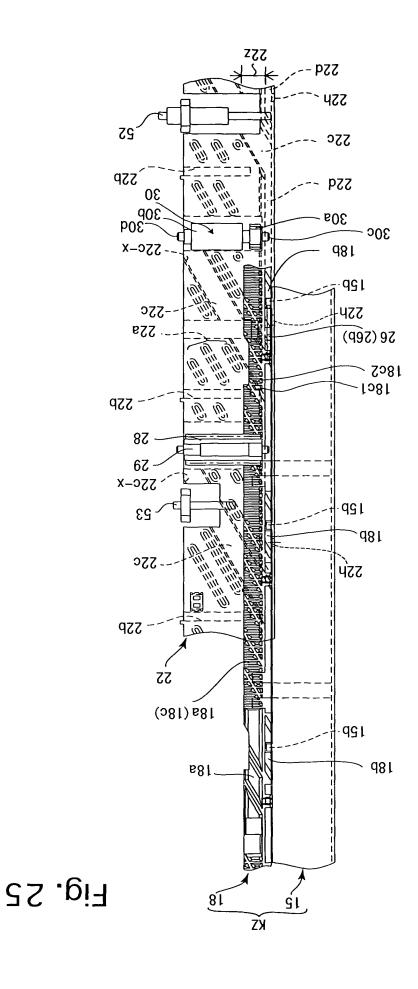


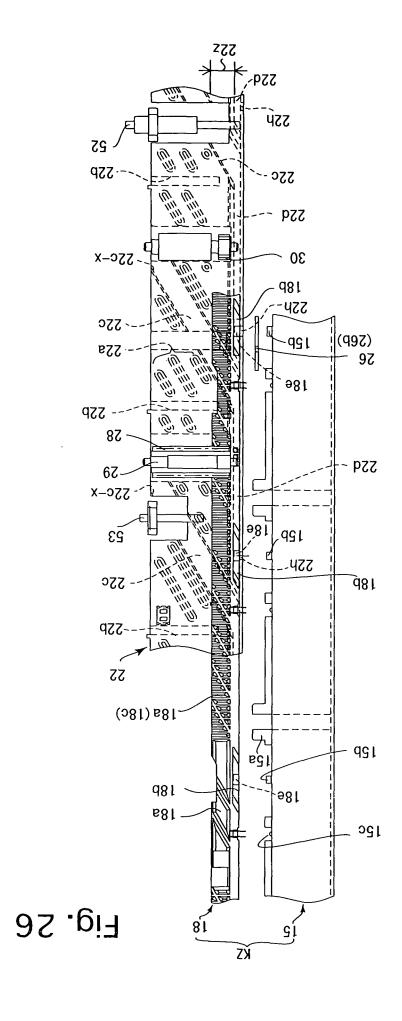
Fig. 20

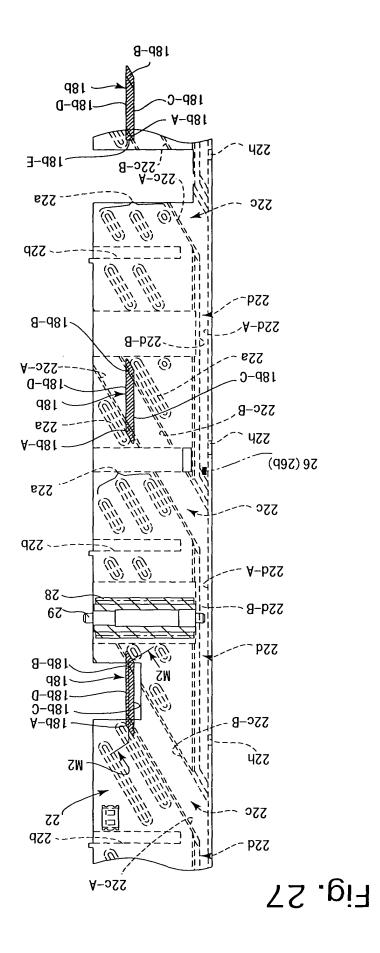


One of the two Elements Guides the Other Linearly Without the Other Rotating --Second Lens Group Radial-retraction One of the two Elements
Advances or Retracts when Rotation Transmission Line One of the two Elements Rotates Relative to the Other the Other Rotates Guide Structure First External Barrel First Lens 0 Second External Barrel Frame 13b 2a First Lens Group Support Structure (Axial Position Adjustment Possible) Second Lens Group Support Structure (Retractable) 12(L) 1= 13(<u>C</u>) Third External Barrel 15 Second Lens Group Frame 8 (L) Second Lens Frame 8b 8b 33, 36, 37 etc - 3 13a, Cam Ring 11 (R, RL) 15d 14d 14g 15_e Moving 15f 32 (R, RL) Second Linear 6 10(L) Third Lens Frame 8a 15a, 14e 32 First Linear 급 응 급 100 18d 22d 18b 21a Stationary Barrel Guide Ring Helicoid Ring 18 (R, RL) Guide Ring 15 (L) 14.8 45.8 14f 10a 22a 18a CCD Holder 21(S) Shutter Zoom Gear Zoom Motor 14 (S, Diaphragm Actuator 132 22 (S) 졲 Motor 52 (53) \Box Actuator 131 150 160 22b 14a Control Circuit 140 75 75









22c-B

Ø,"

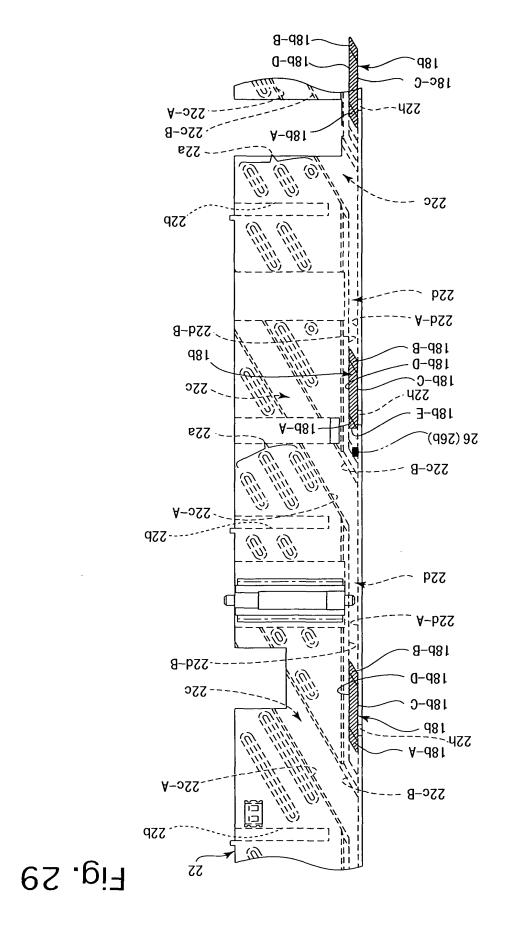
525

18P-B

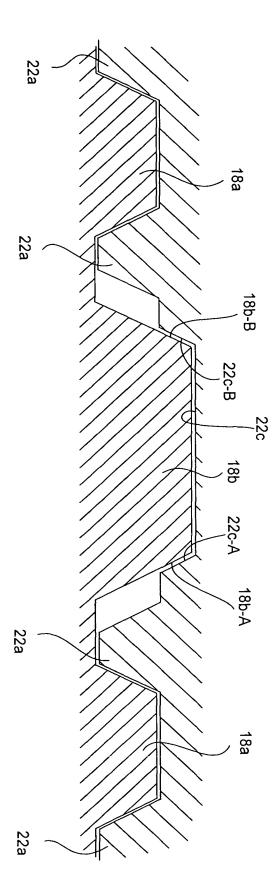
~ 55c

22c−A

- 22a



8-481-48 I 524 72c-A 18P-C 22c-B J-481 22a A-481 *©"* 52b - 22C -22d-B 22c-B A-b22 A-525 -18b-B 18P-C 55c. 477 18P-D-22a A-d81 3-481 · - 22b **22d** 58 -22d-28 <u>@</u> 22c-B 22d-B A-525 18P-B 18P-D -. 477 18P 18P-C-A-d81 凹凹 - 22C **55**q (a) 22 Fig. 30 - 22b



:ia. 31

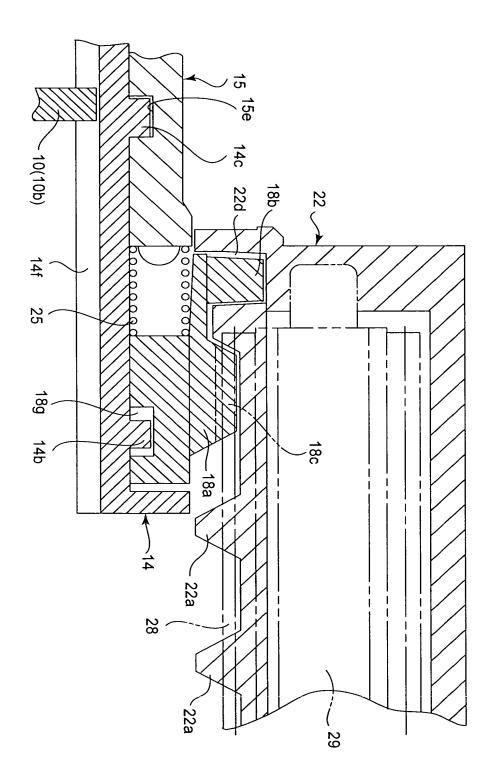
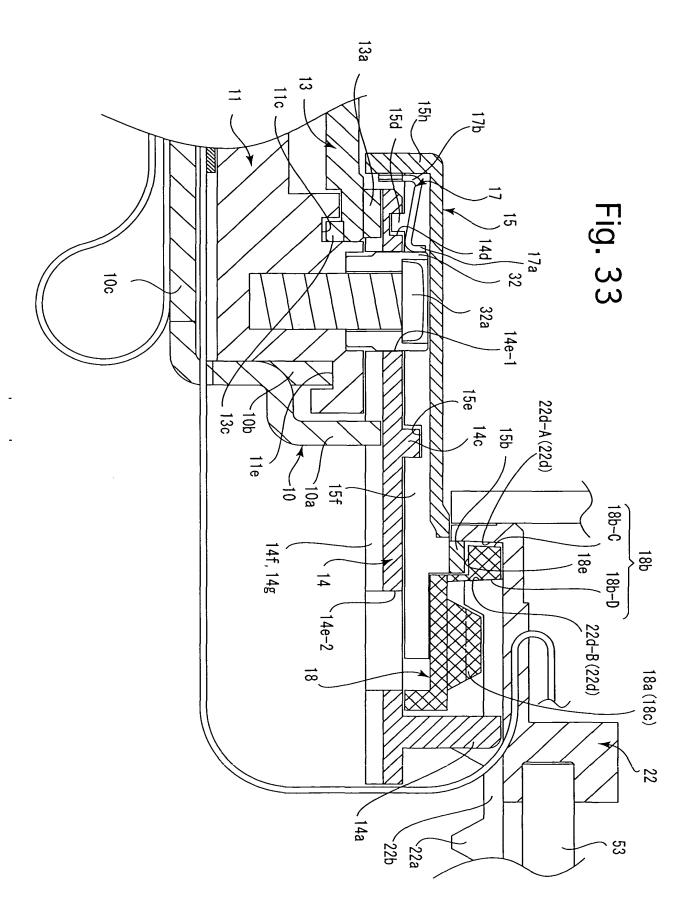
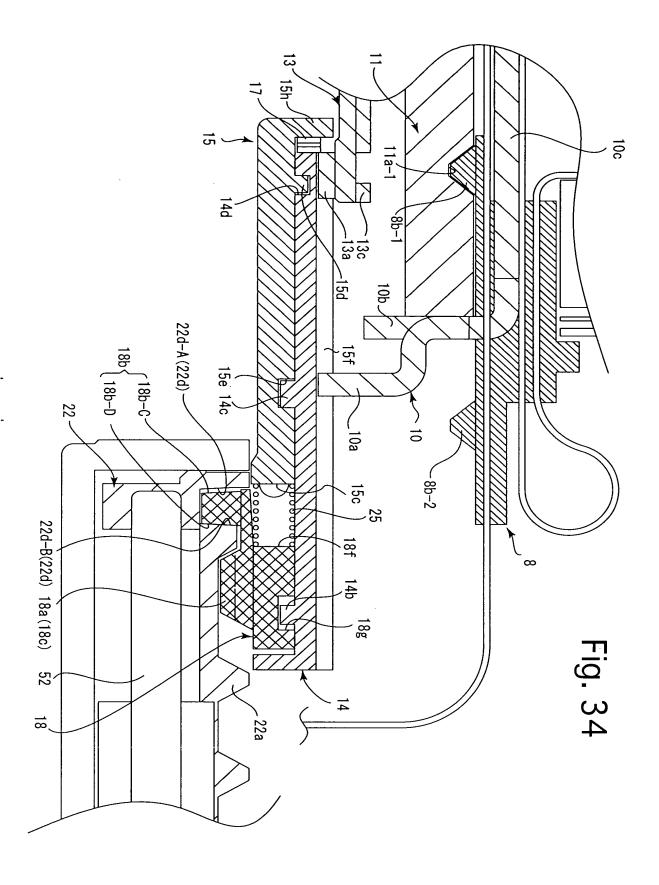
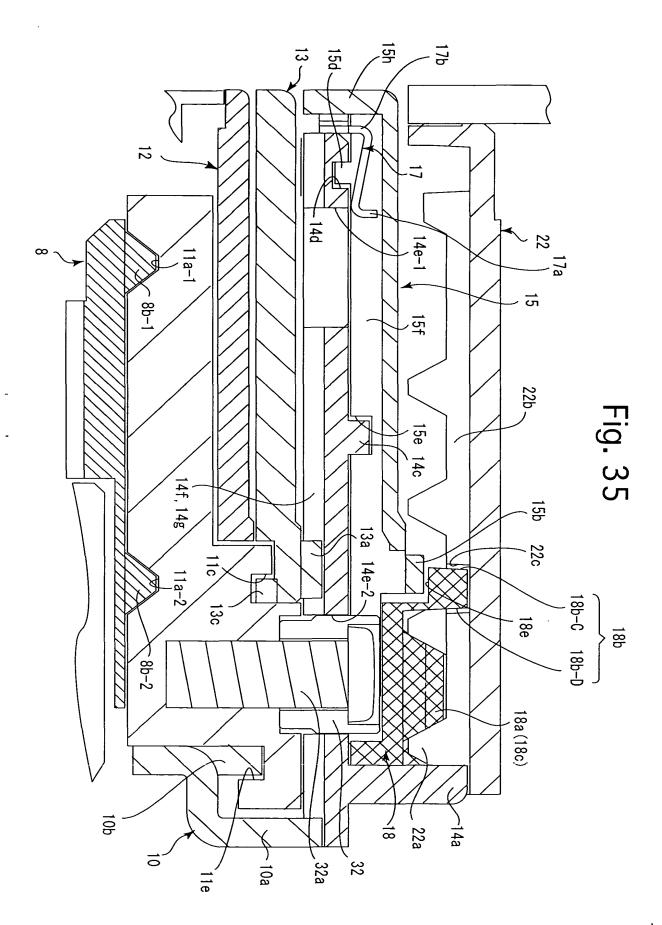


Fig. 32







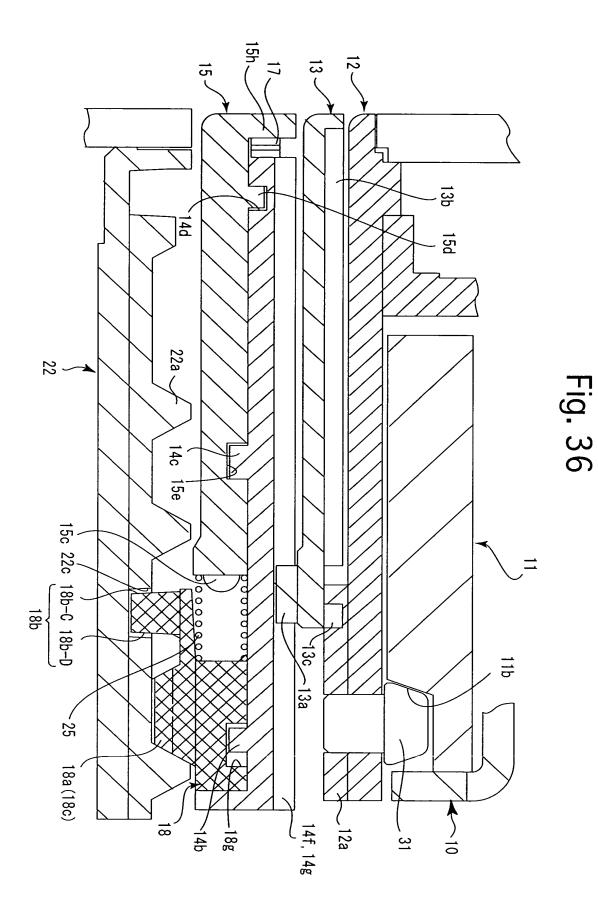
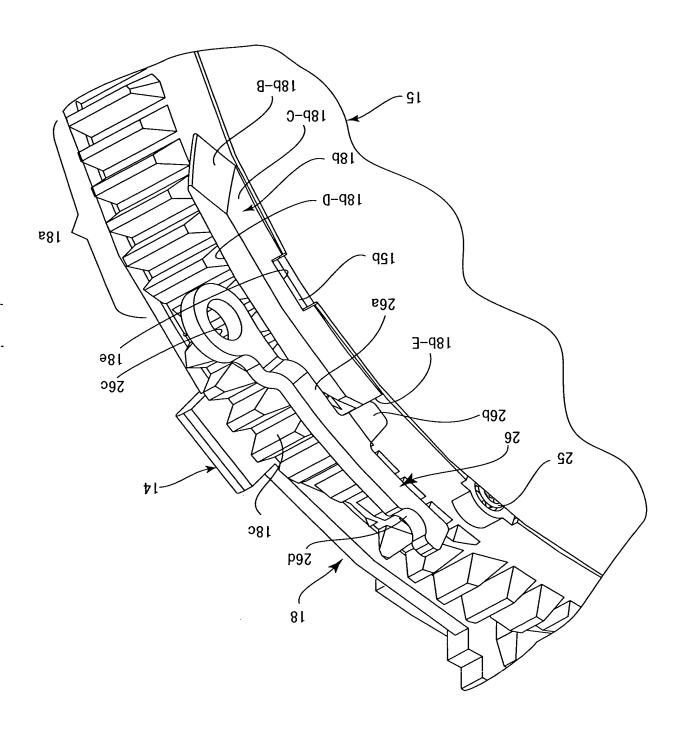


Fig. 37



85.gi3

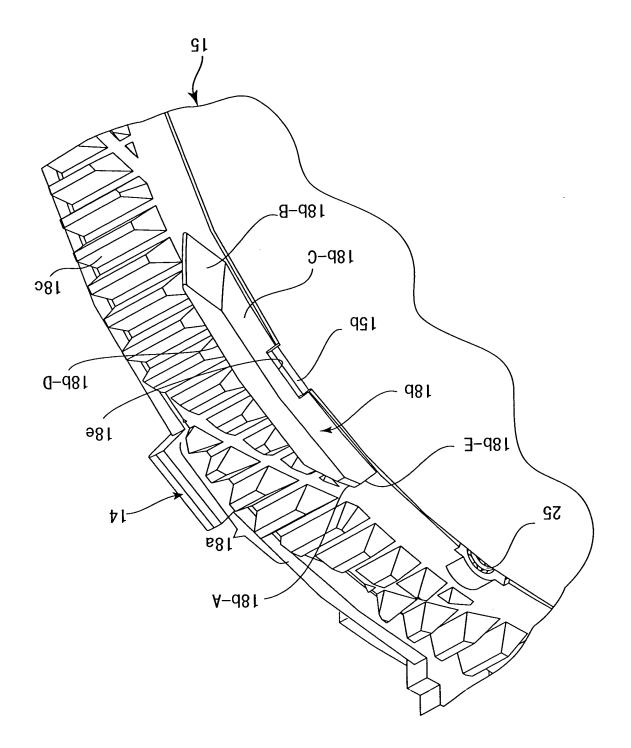
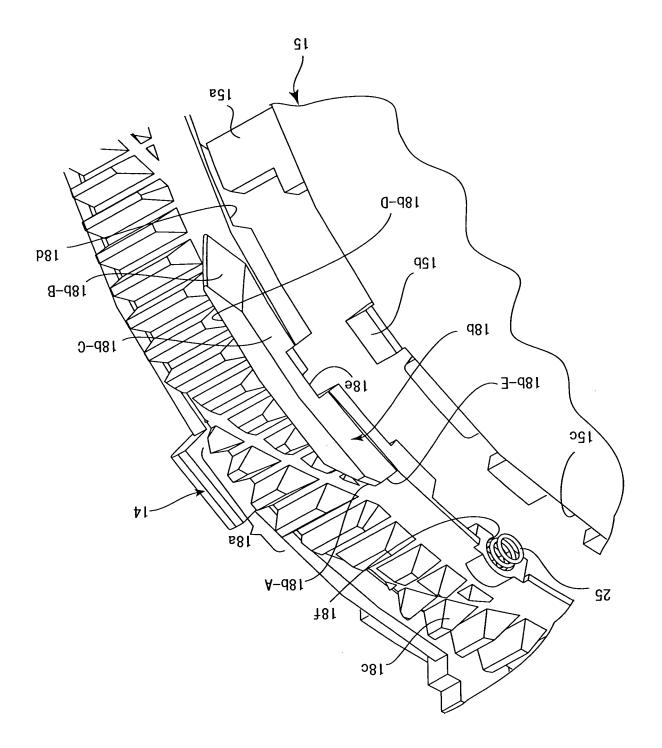
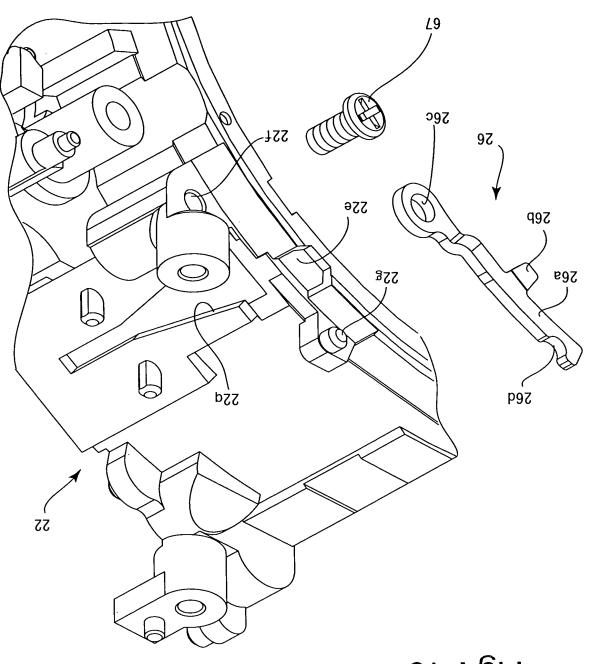
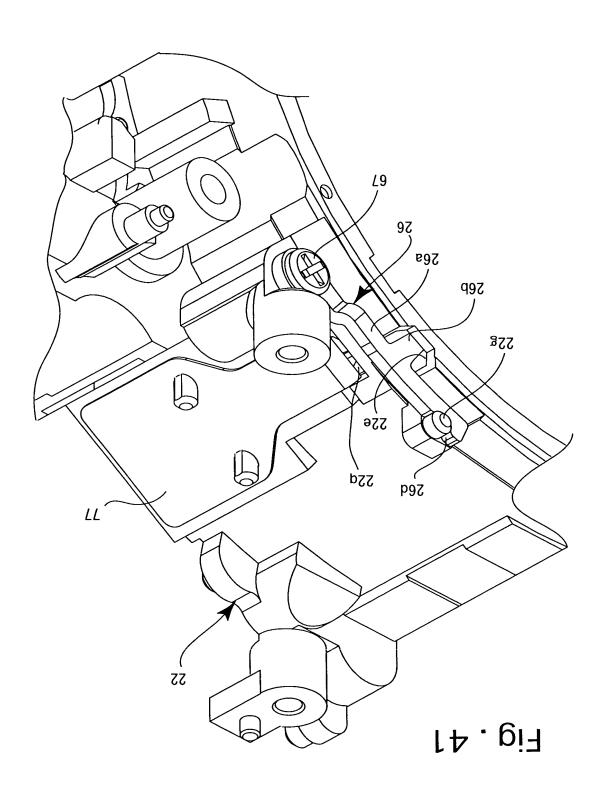


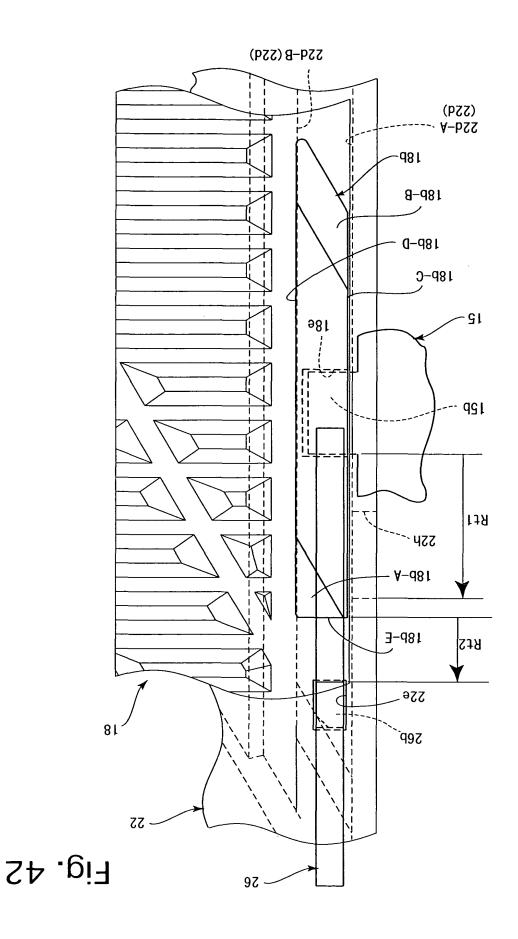
Fig. 39





04 . gi∃





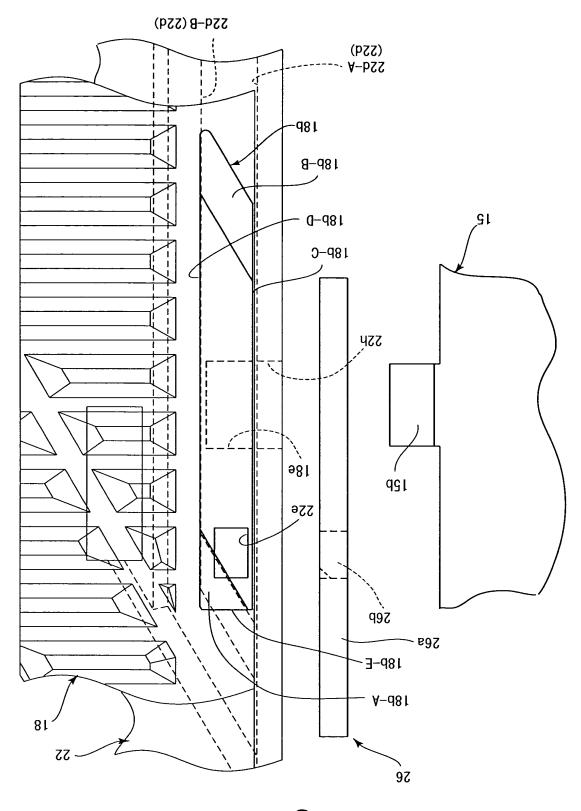
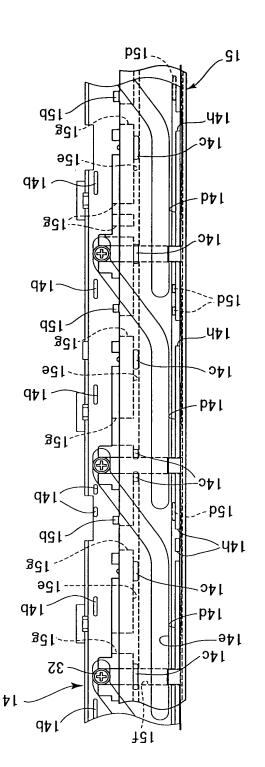
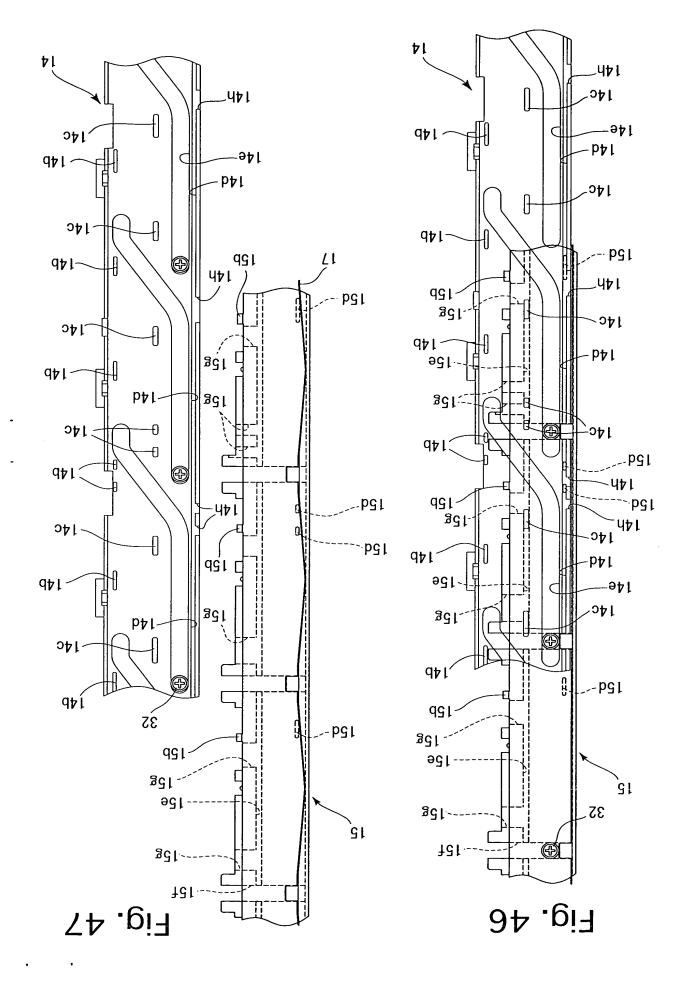


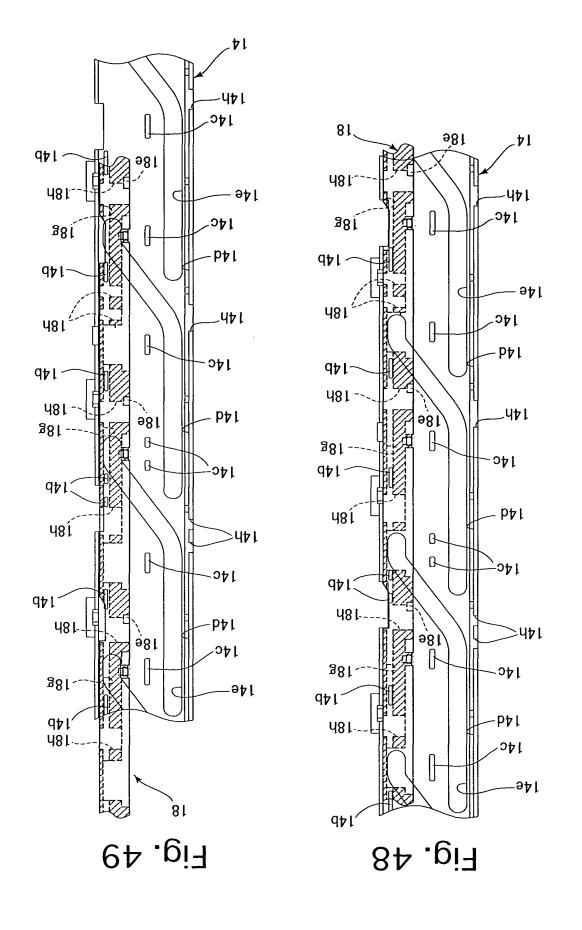
Fig. 43

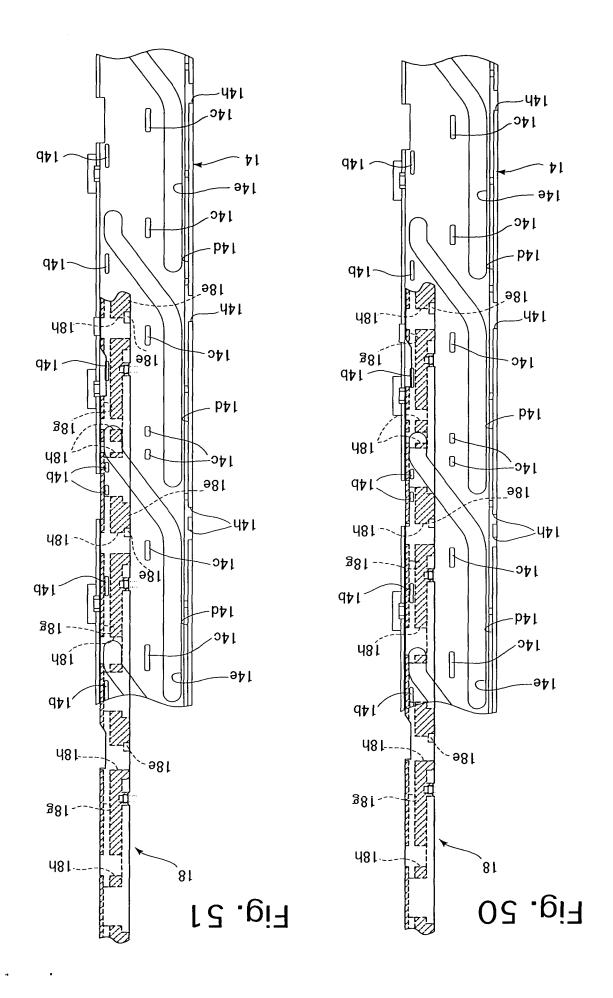
1**4**6 pgı 14b 129 361 14c. ag J - P† [971-391---47L 14c-971->pg1 12g - p†! 14c-971< ---9G[391-140 140 - pg [12p 361-**7**1 -146 971 12e 3g|~ 35 151 Fig. 45

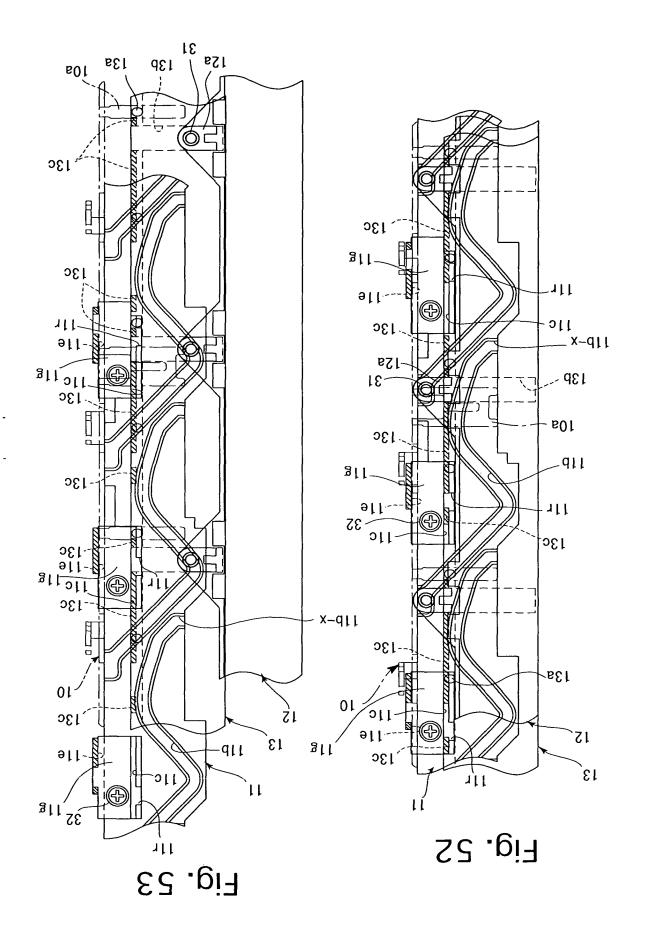
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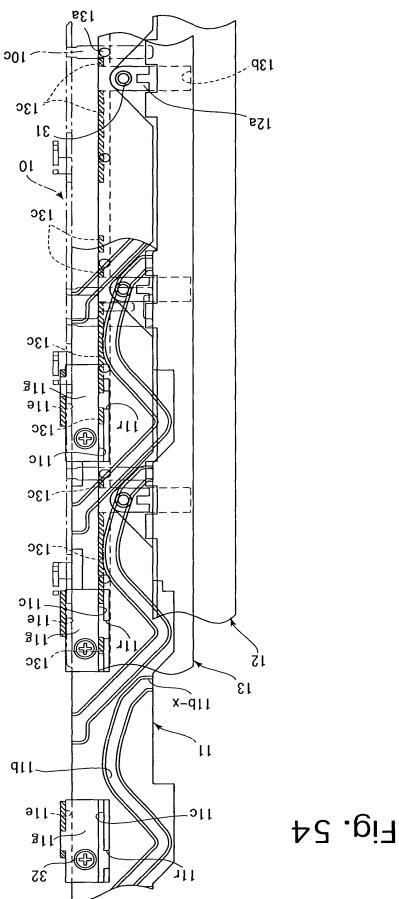


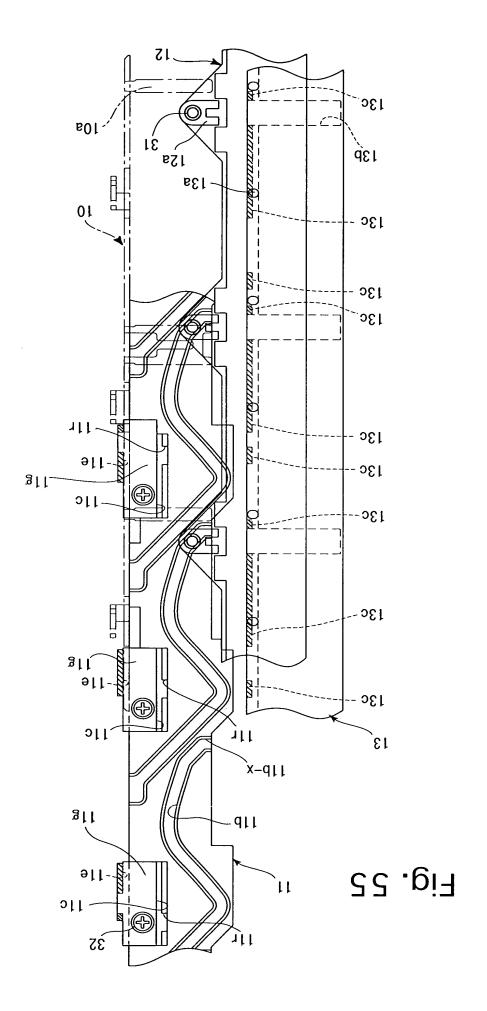


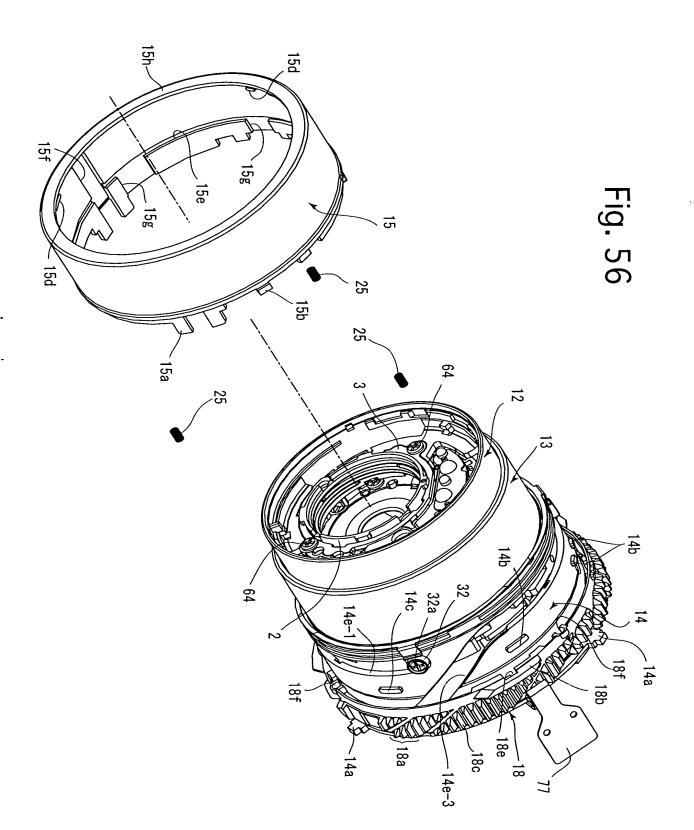


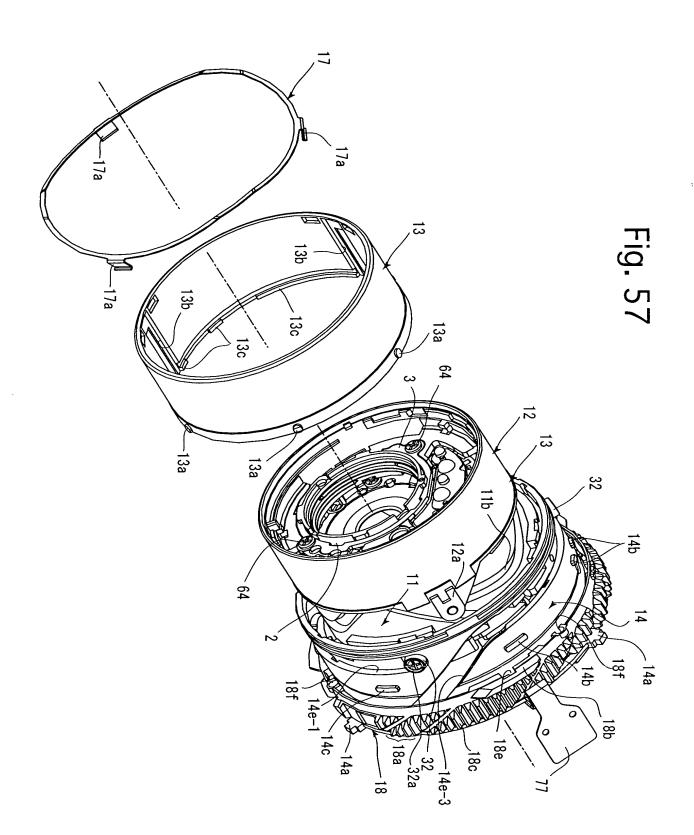


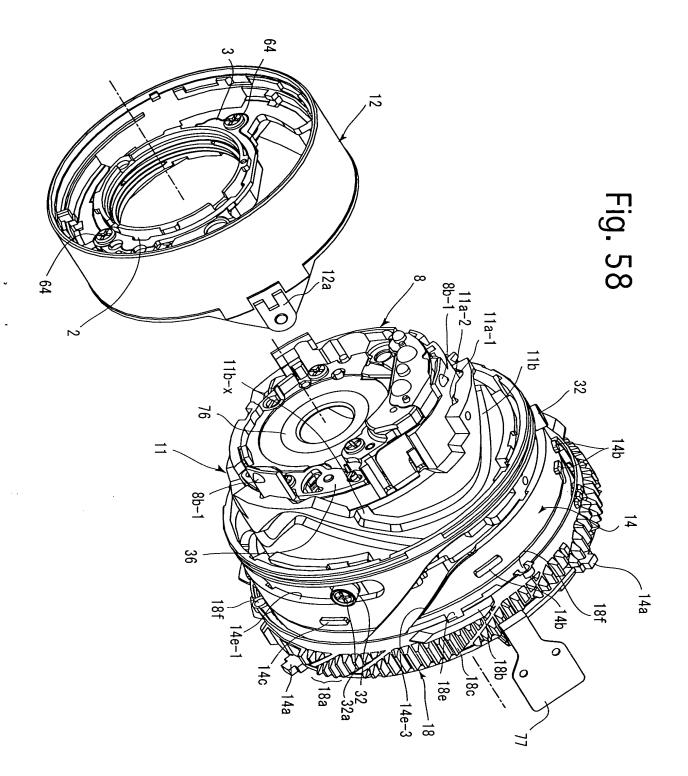


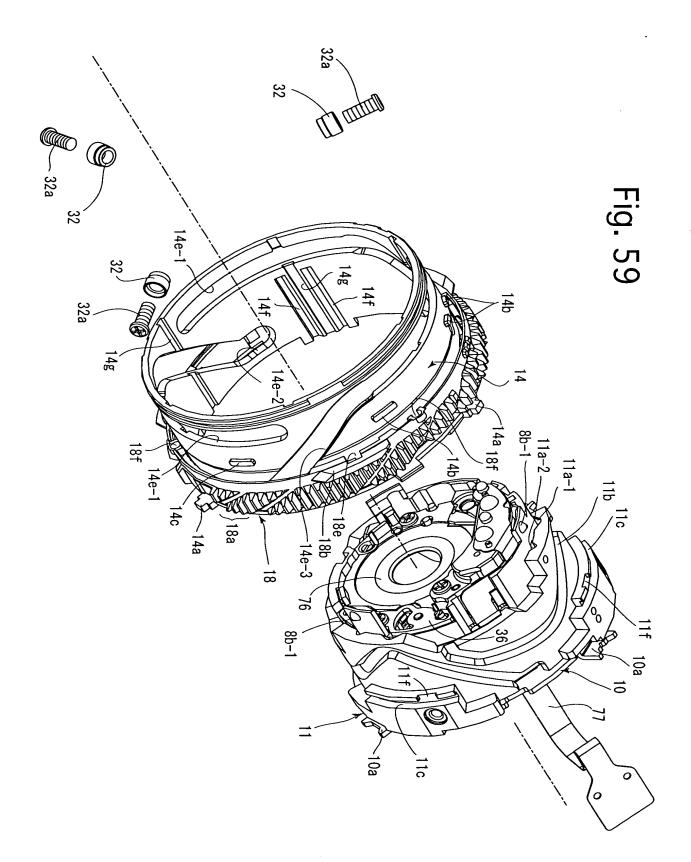


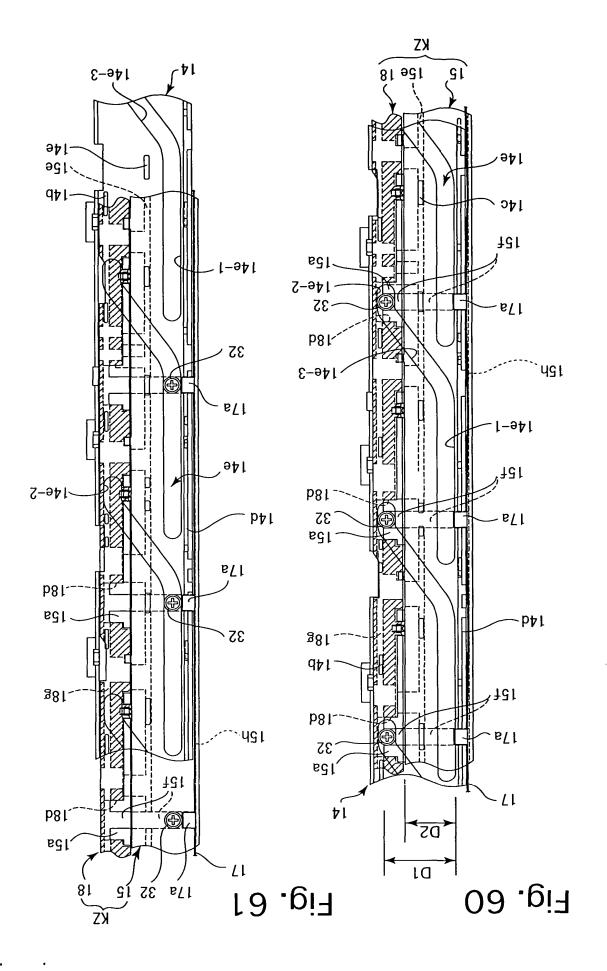


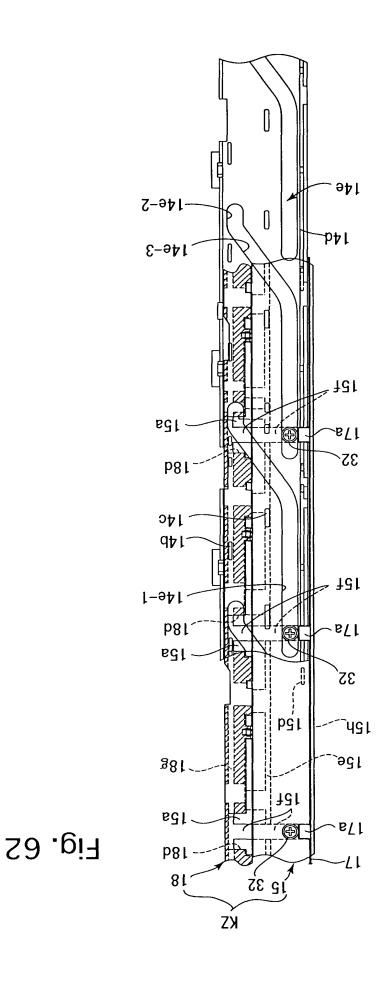


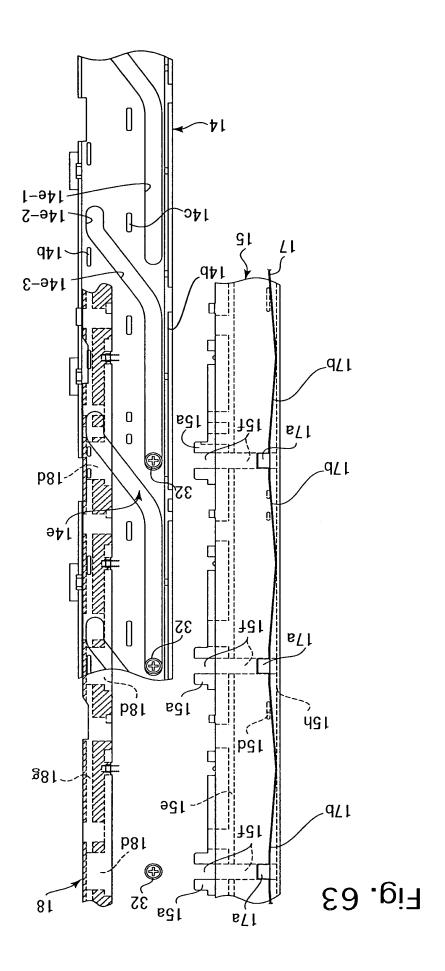




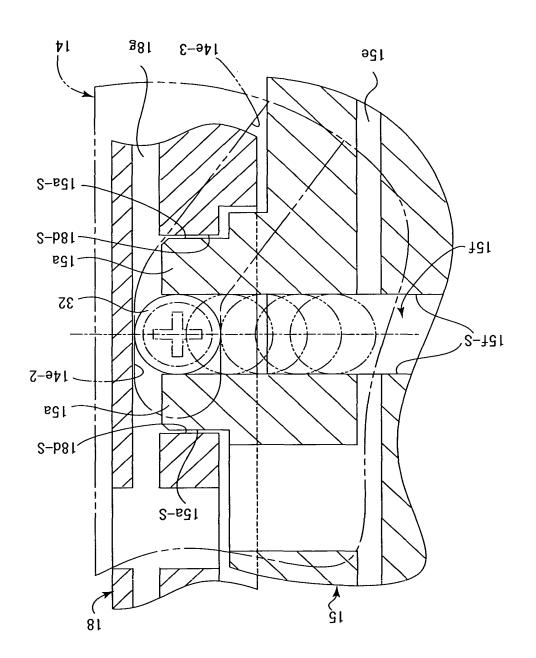








₽ig. 64



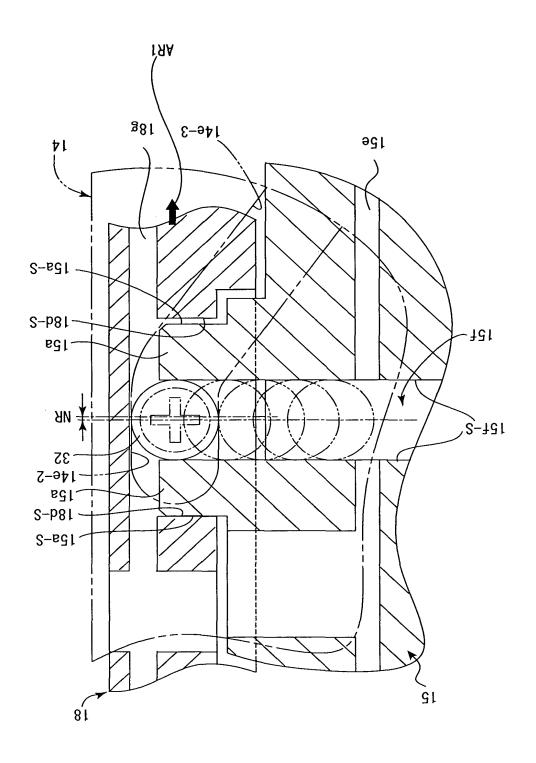
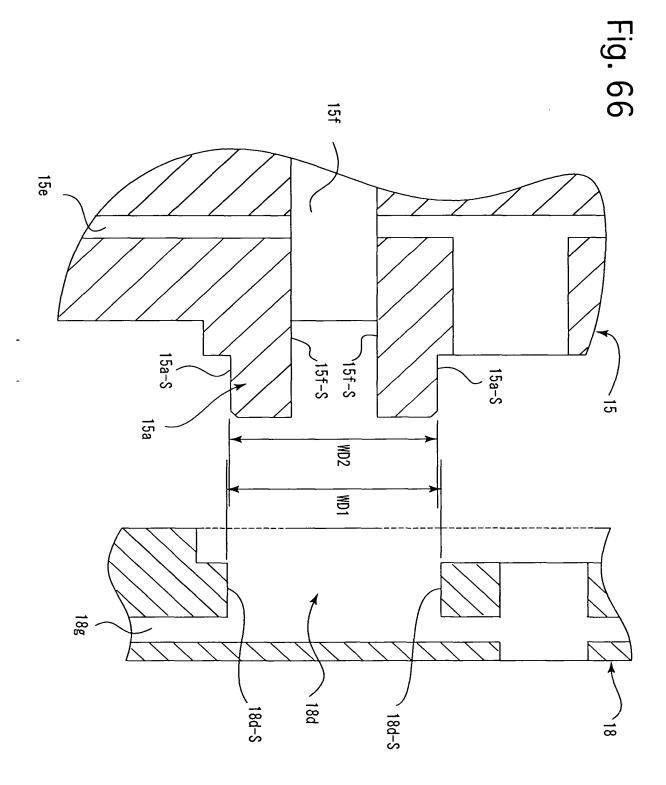


Fig. 65



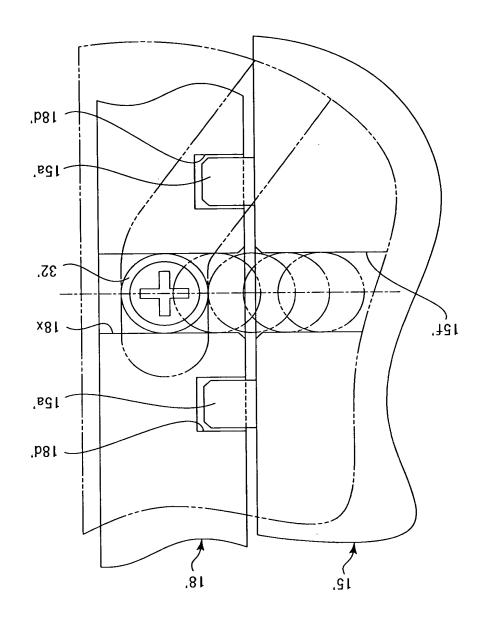


Fig. 67

Fig. 68

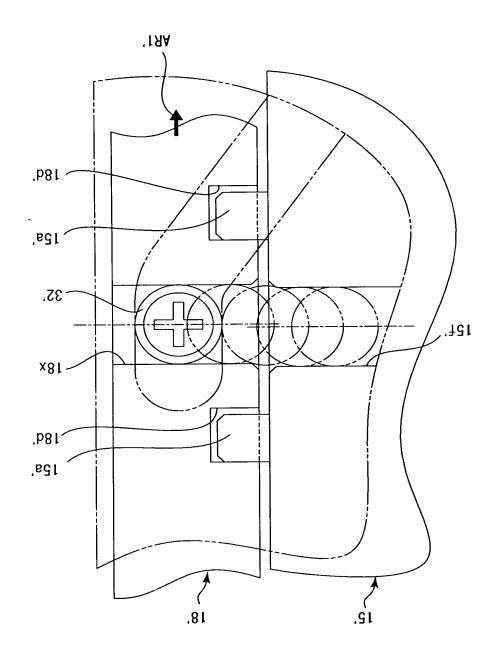
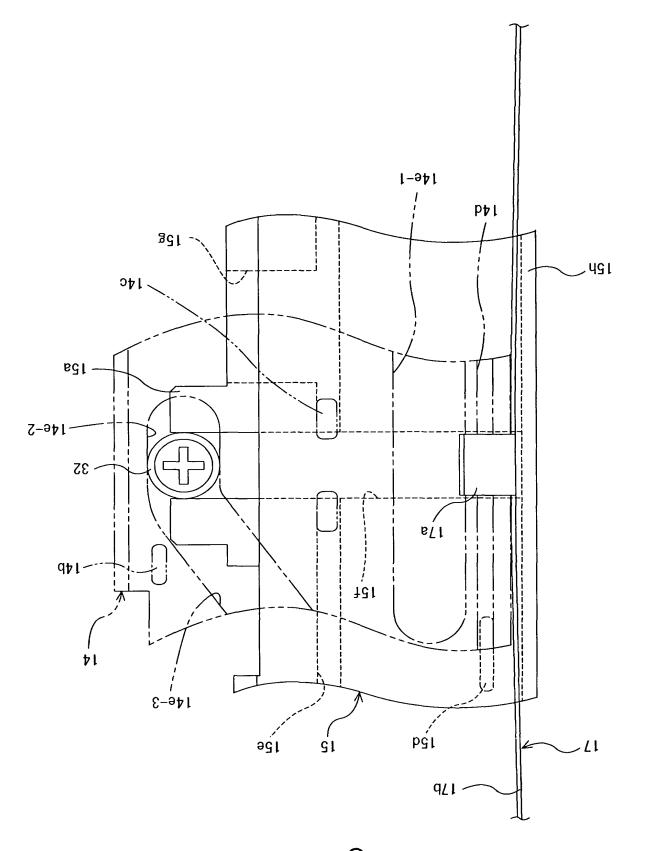


Fig. 69



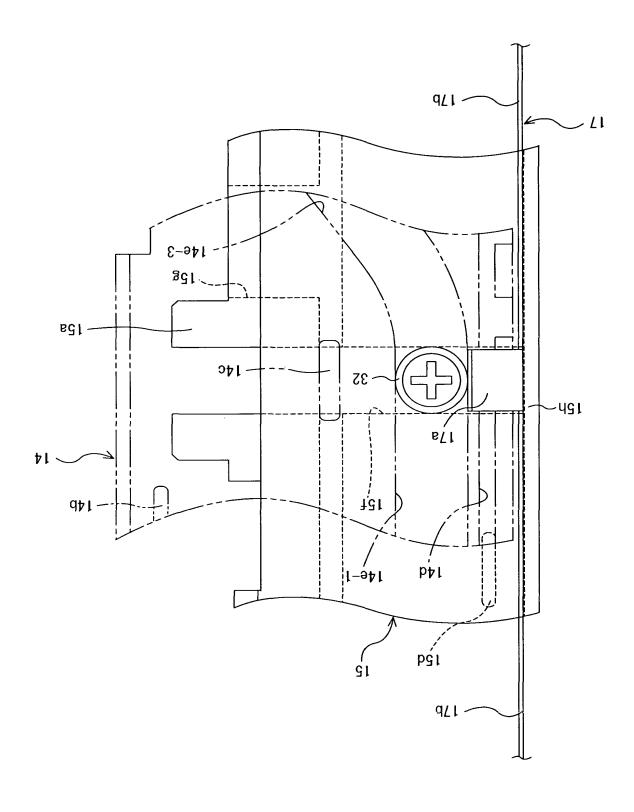


Fig. 70

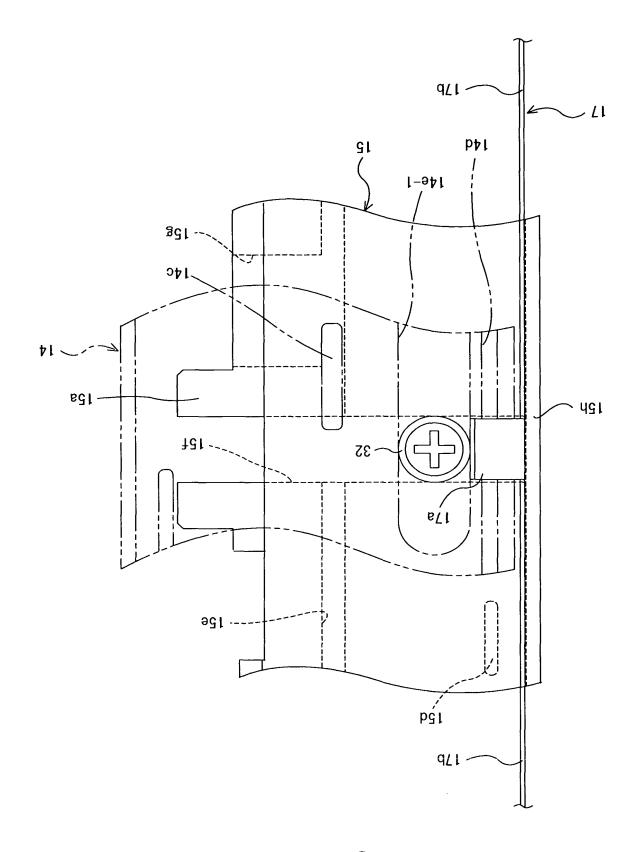
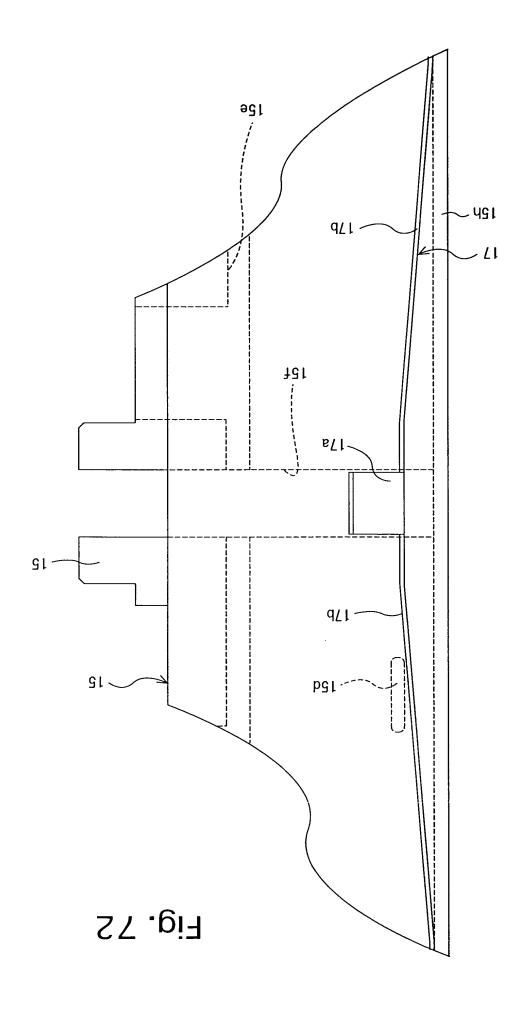


Fig. 71



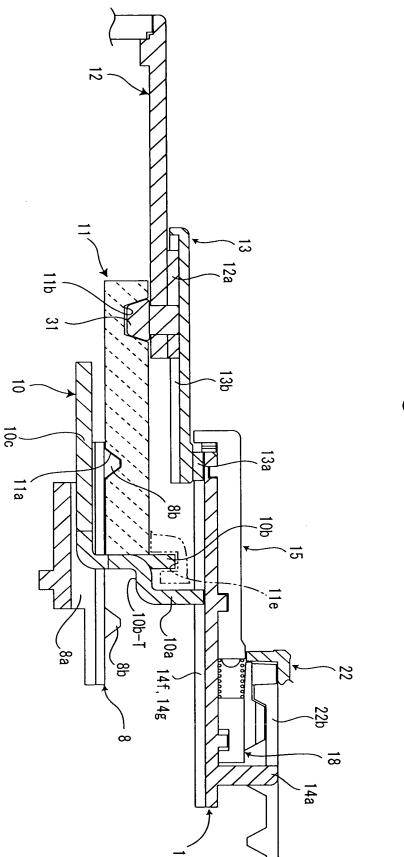
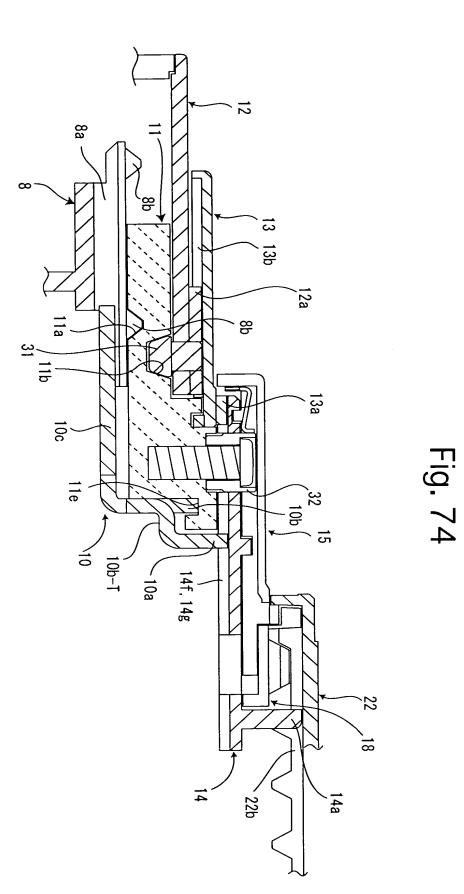
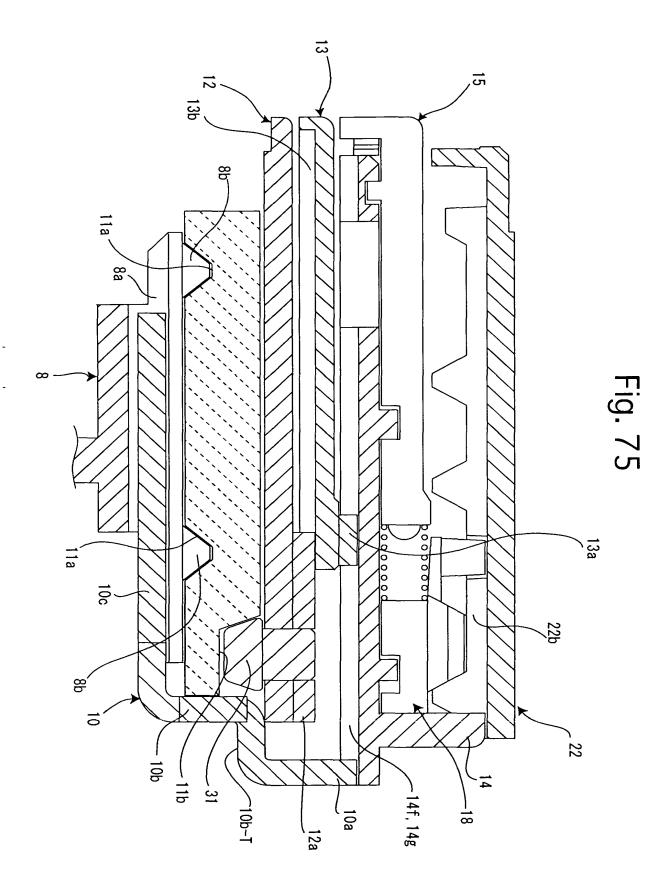
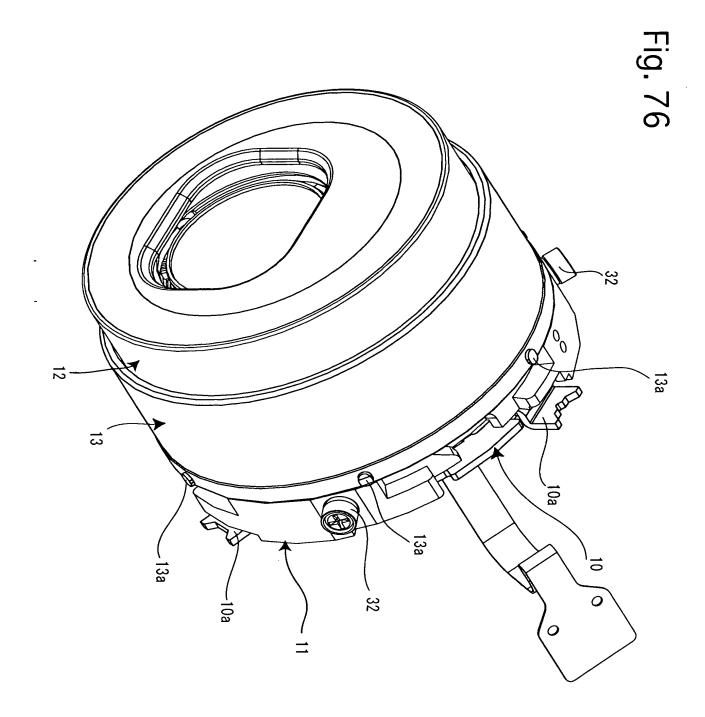


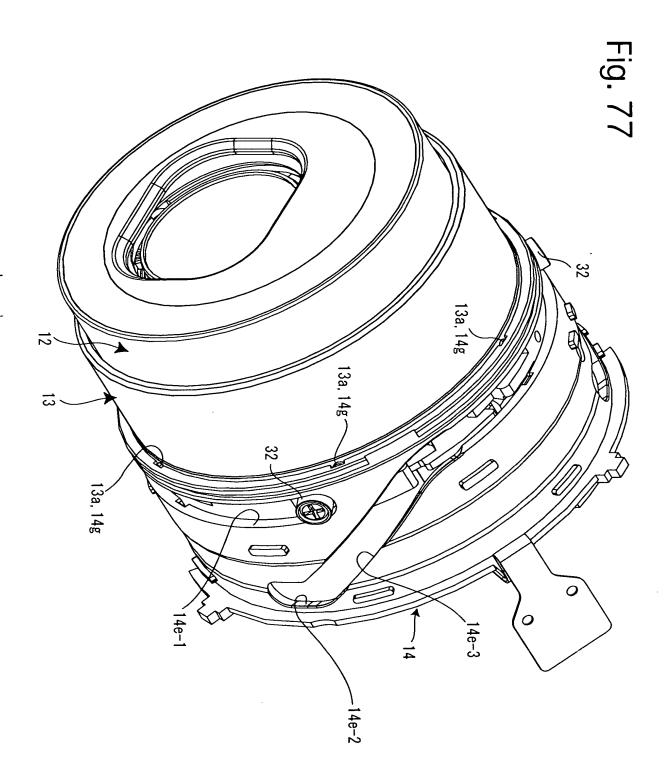
Fig. 73

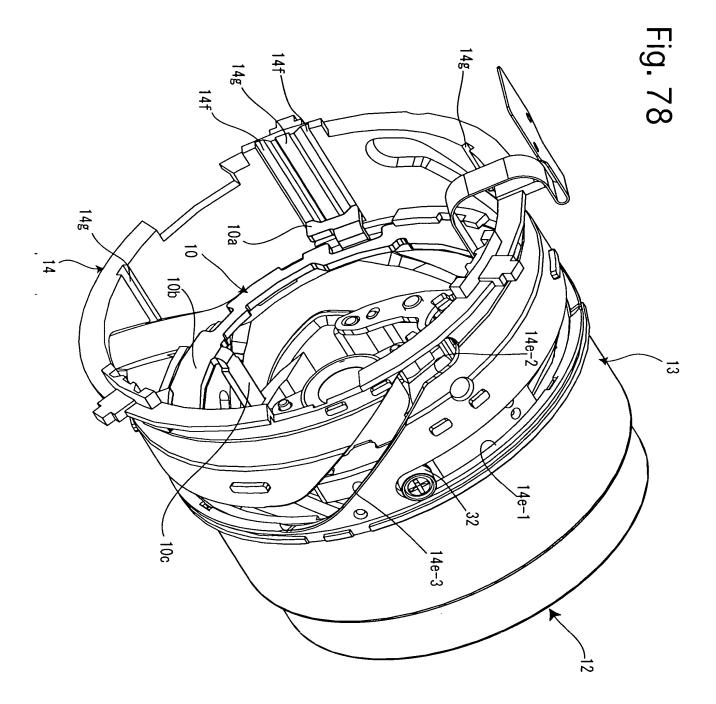


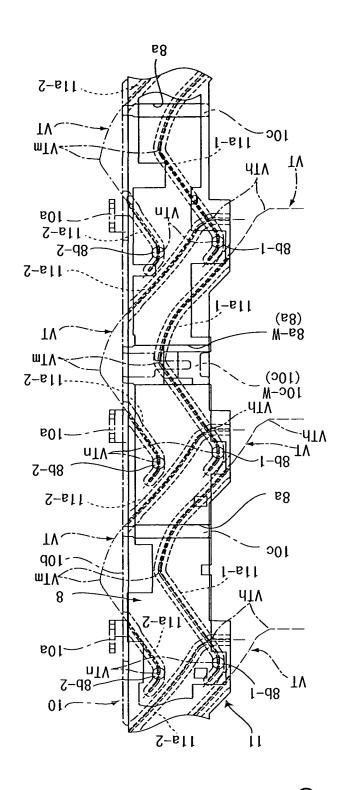
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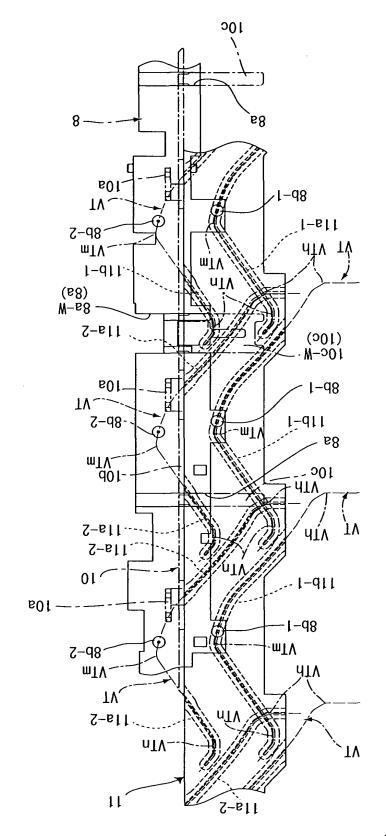


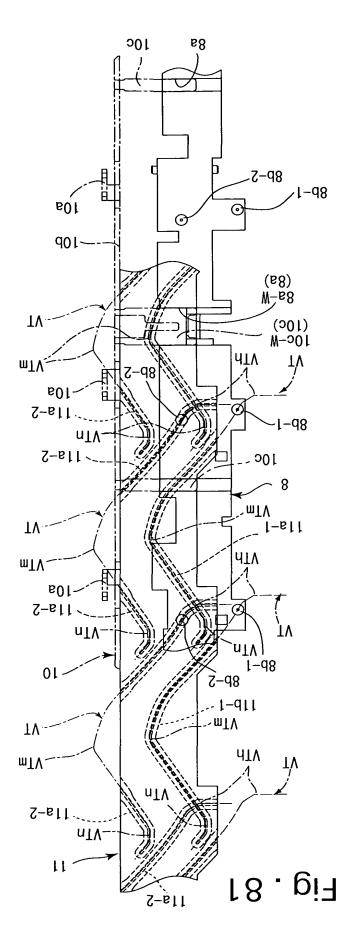


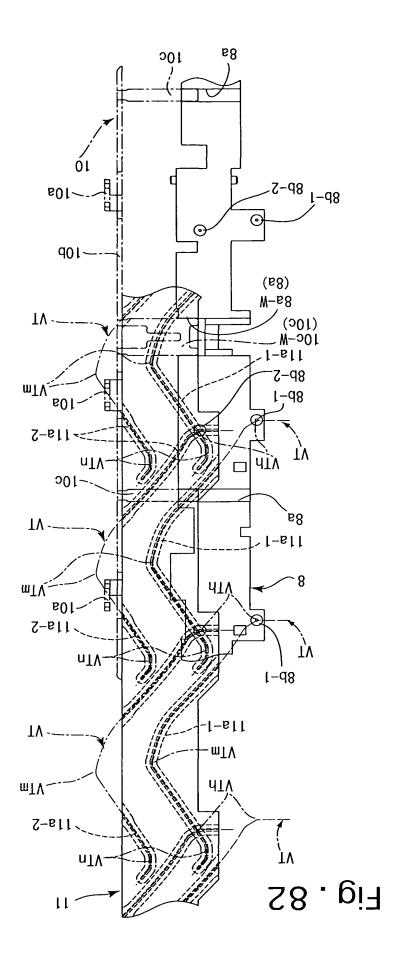


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08 . gi7







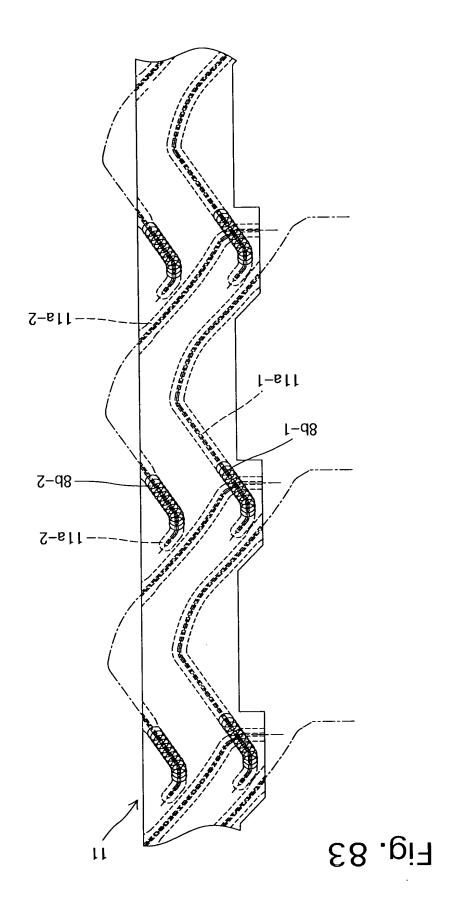
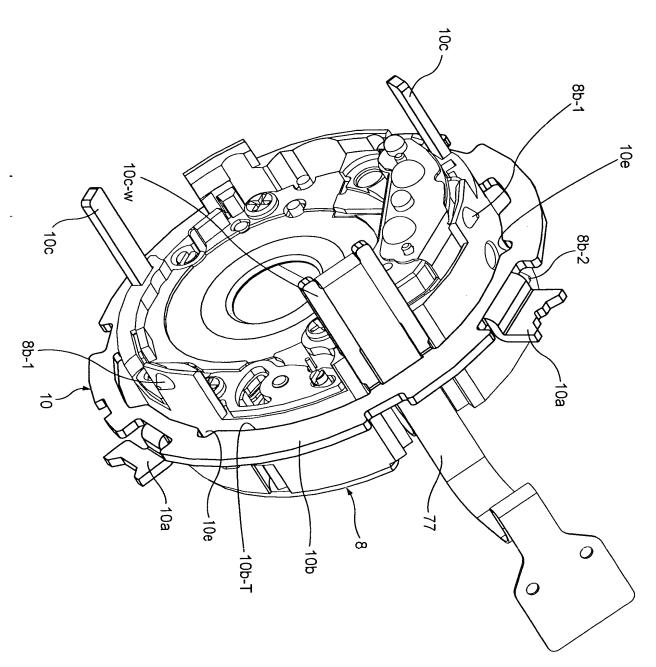
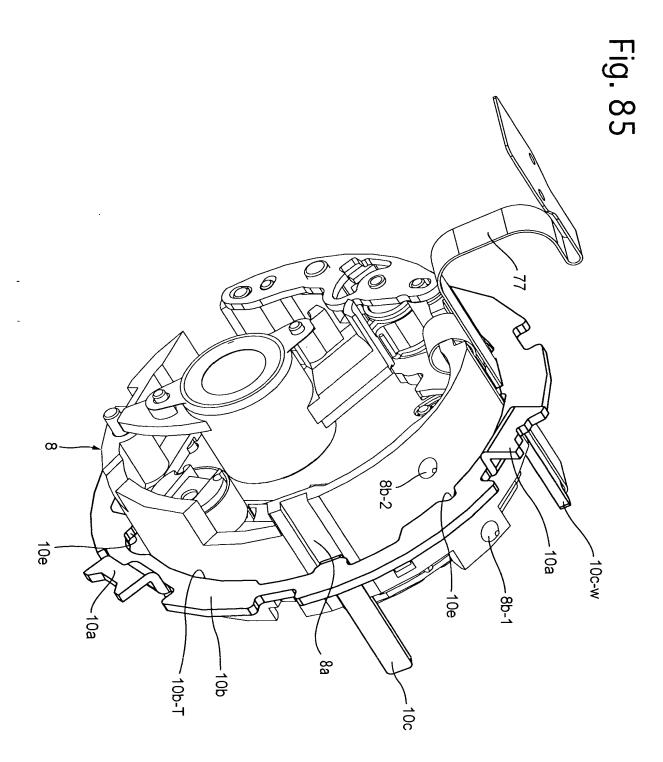
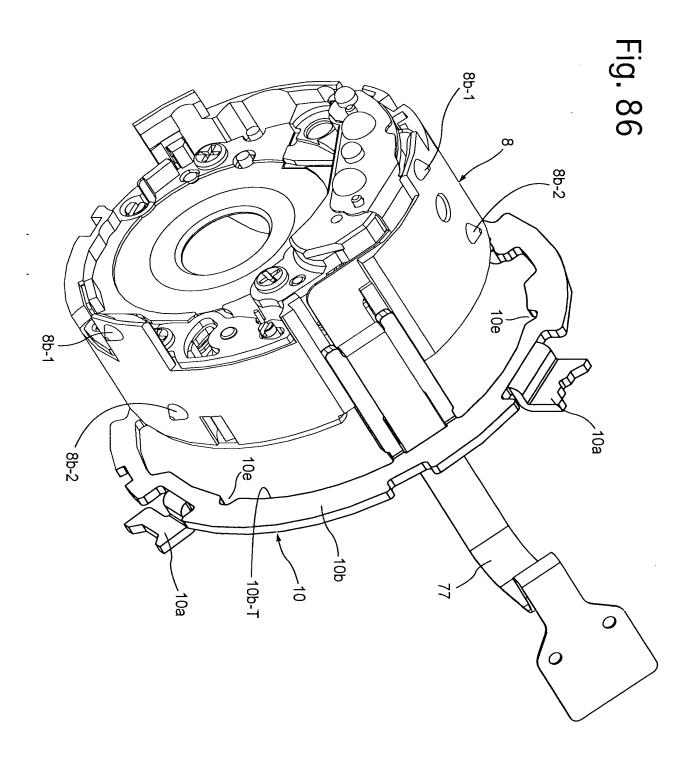
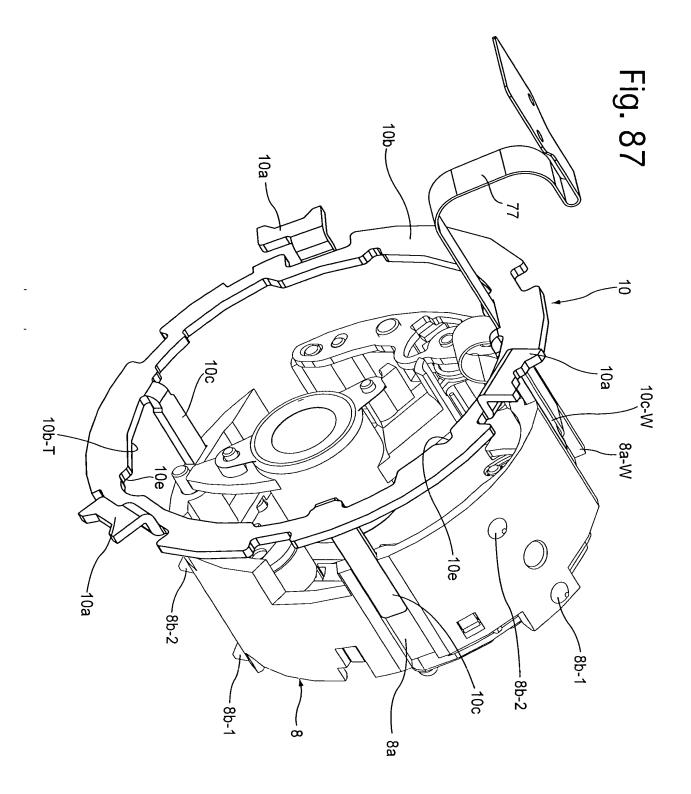


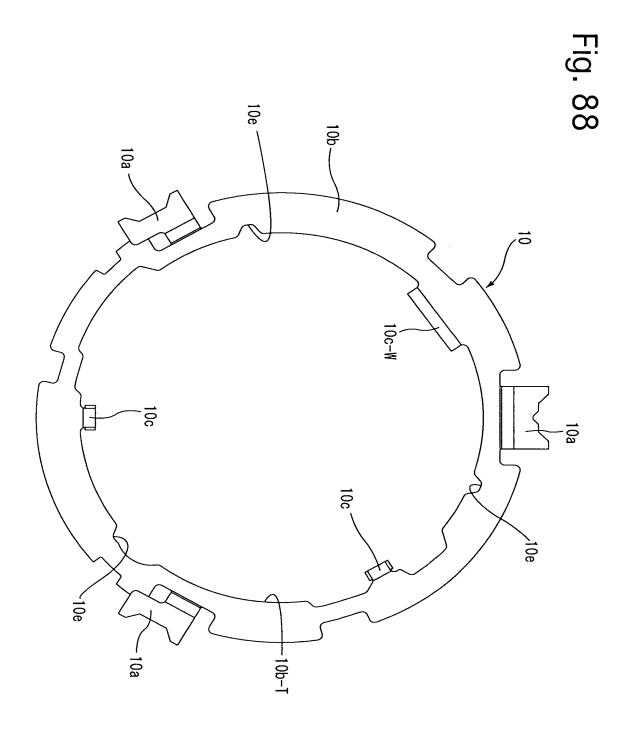
Fig. 84

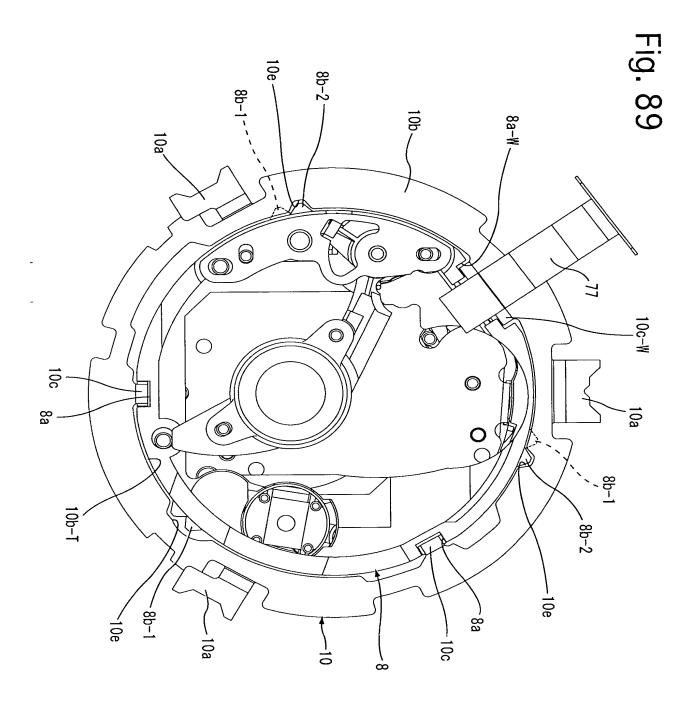












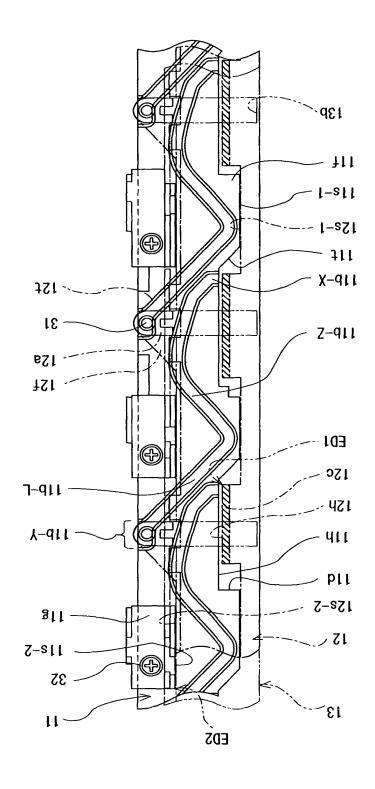
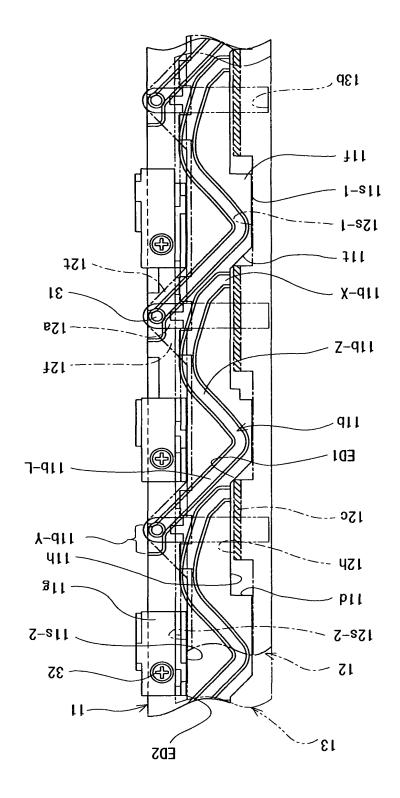
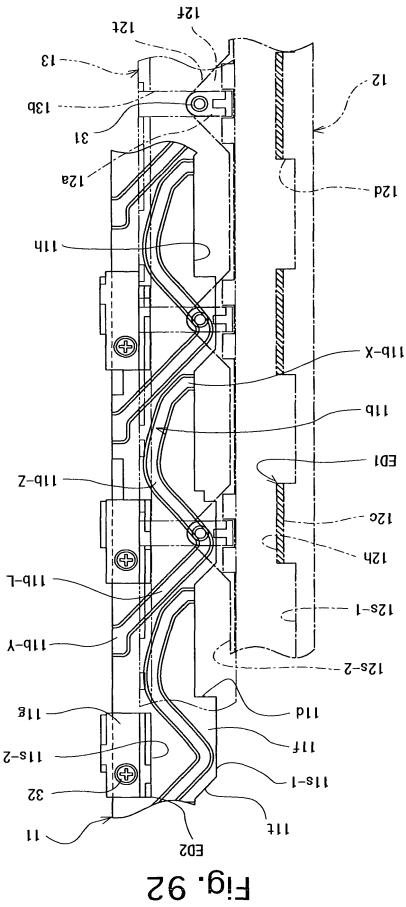


Fig. 90

Fig. 91





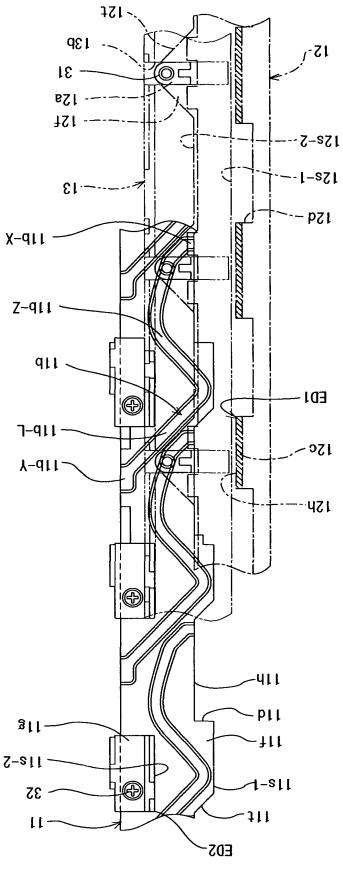
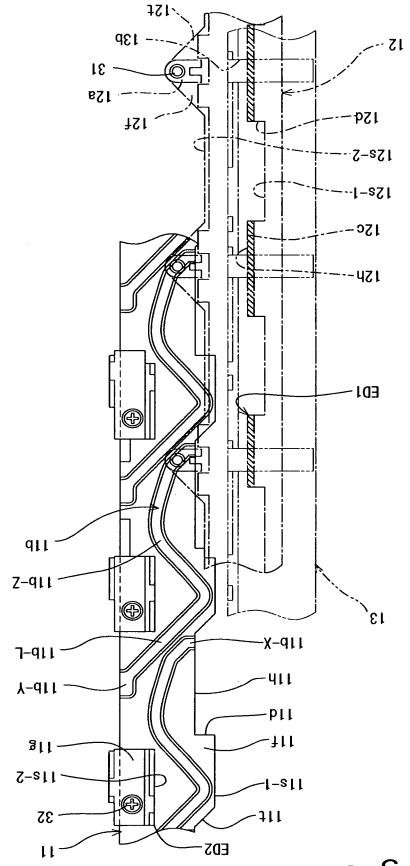
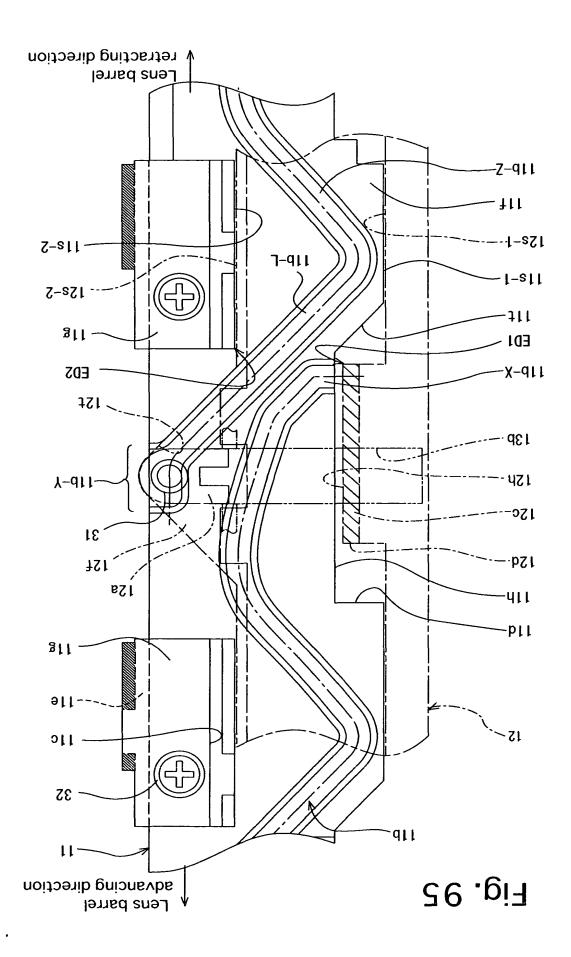
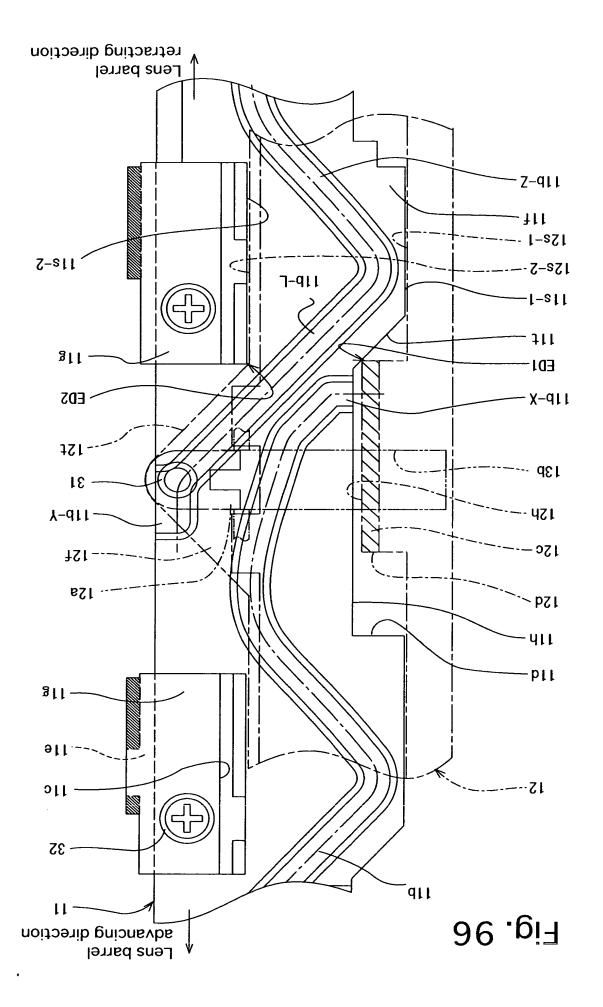


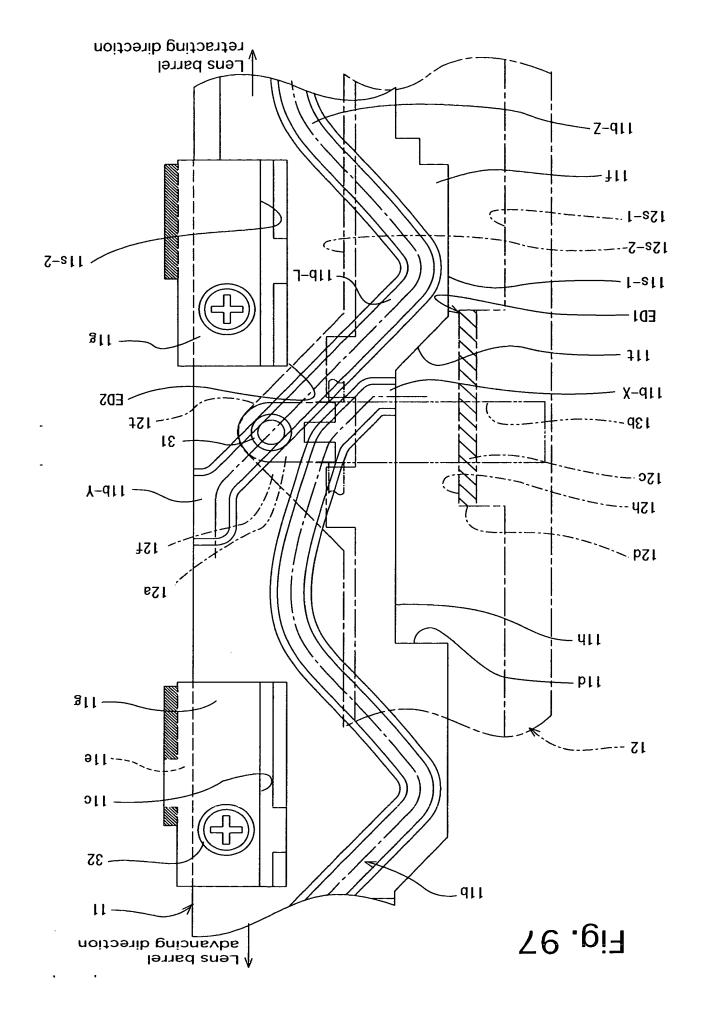
Fig. 93

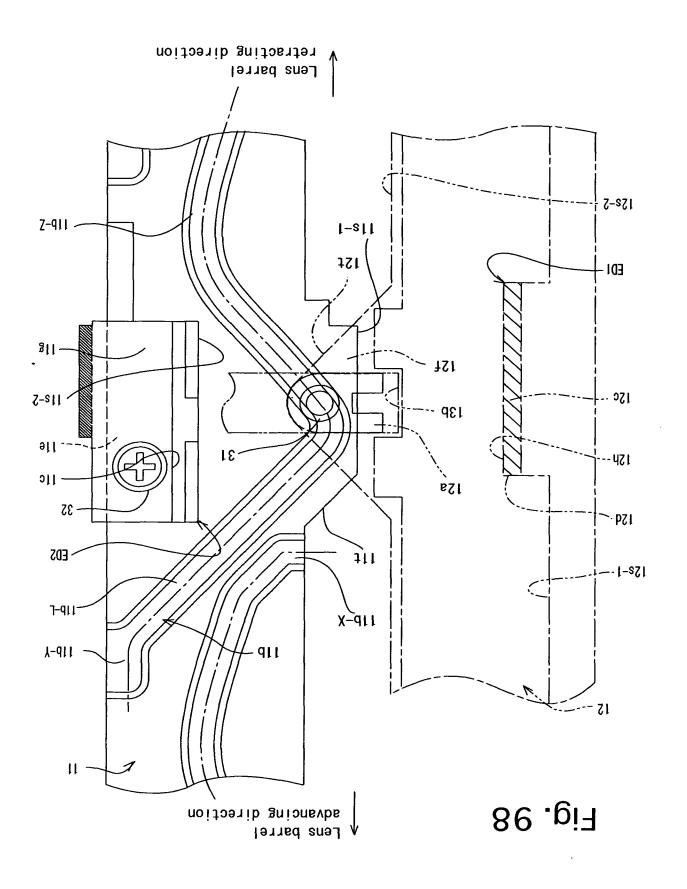
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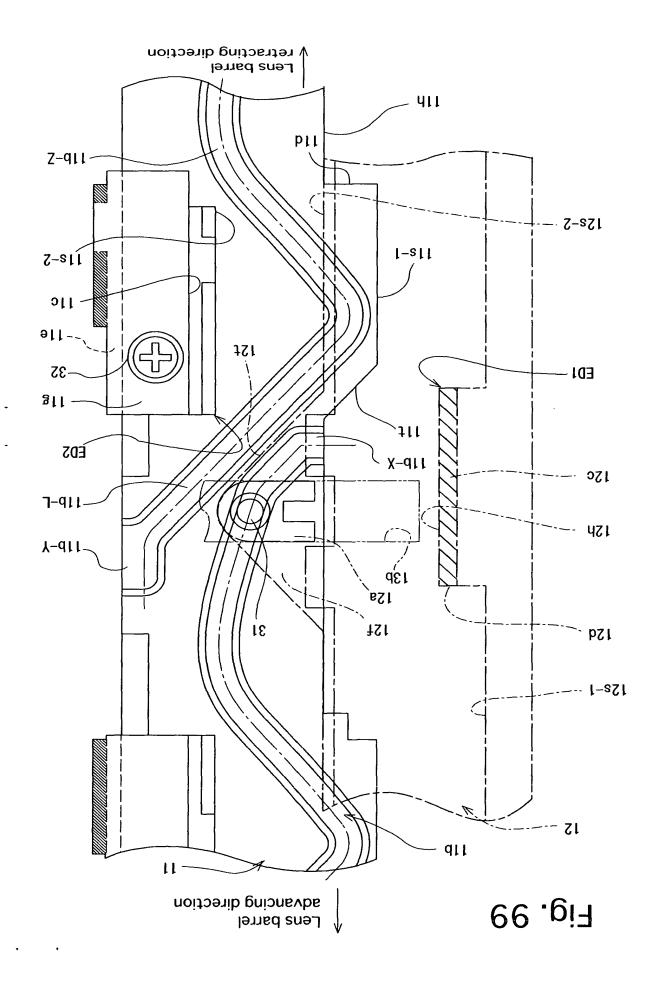


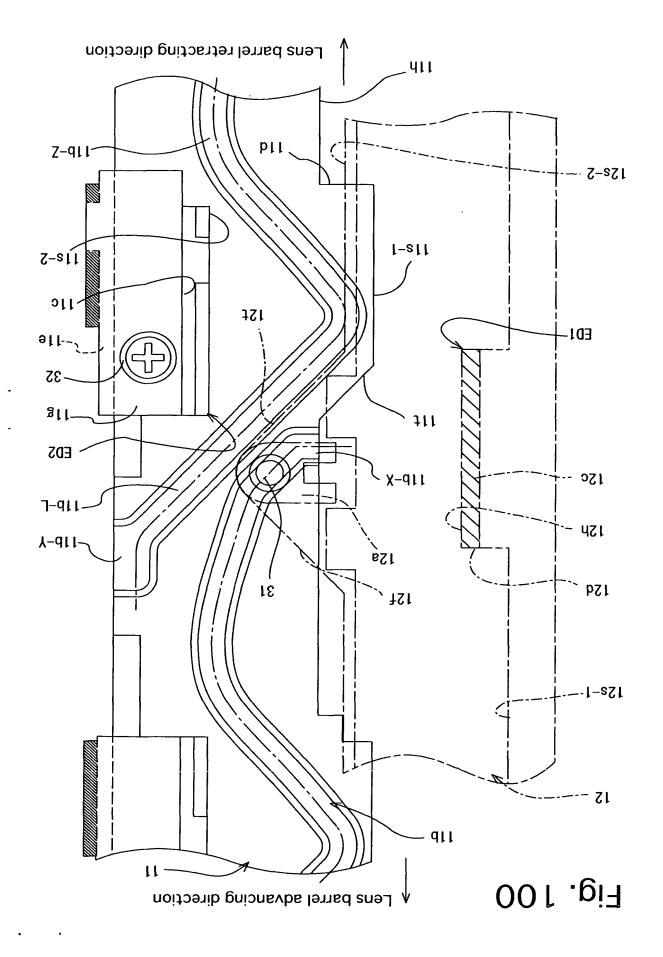


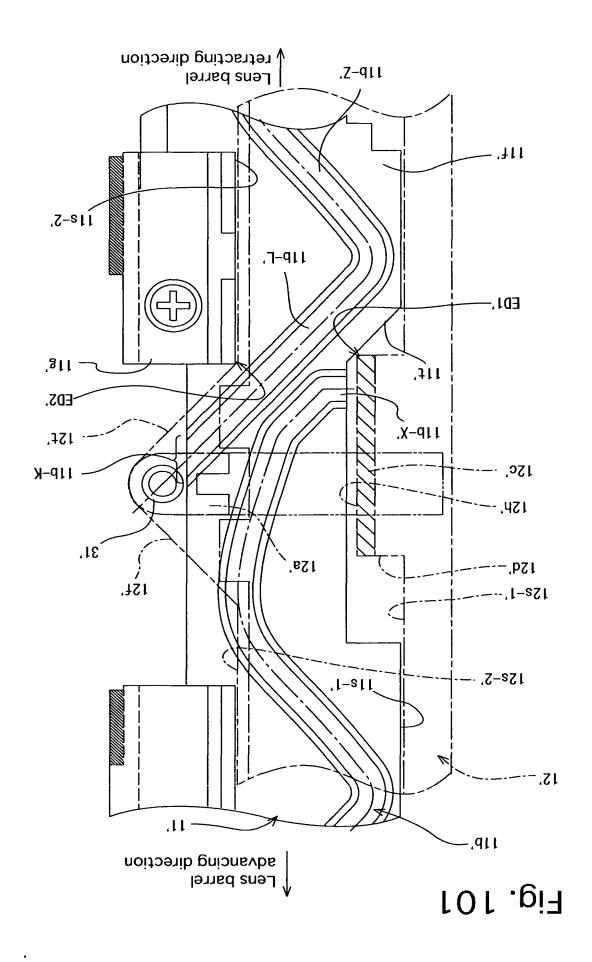


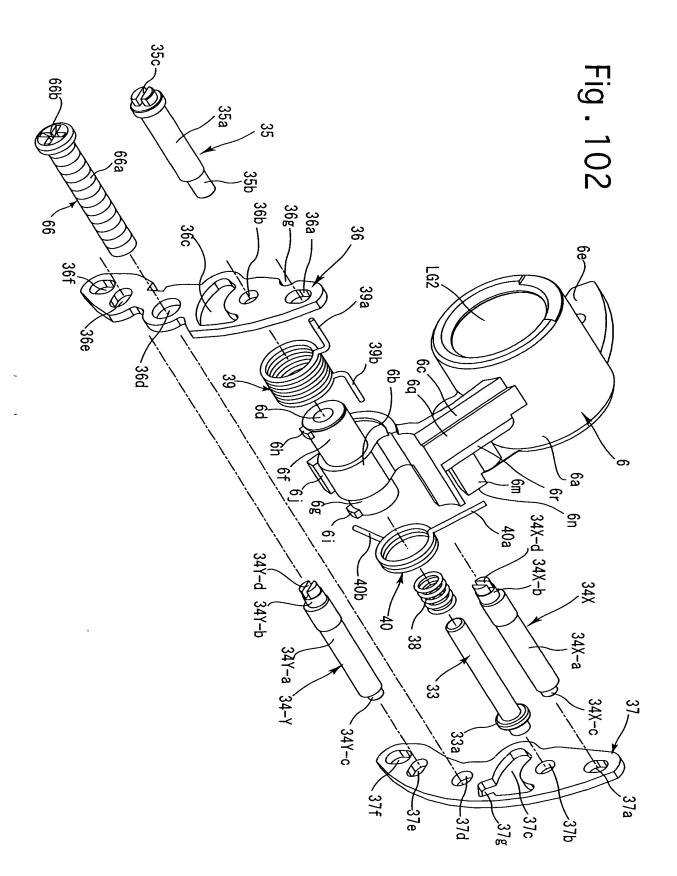


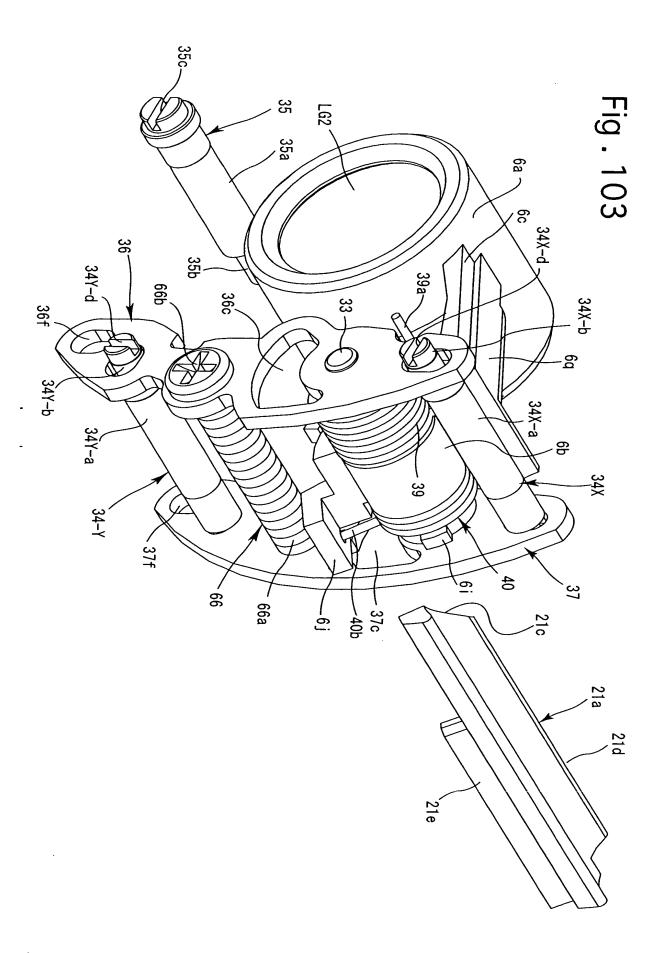


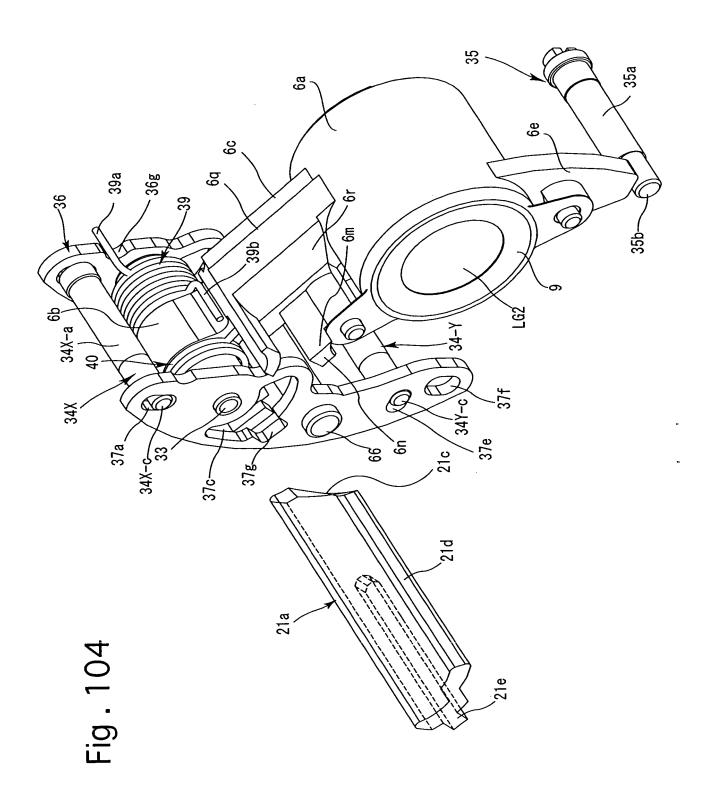


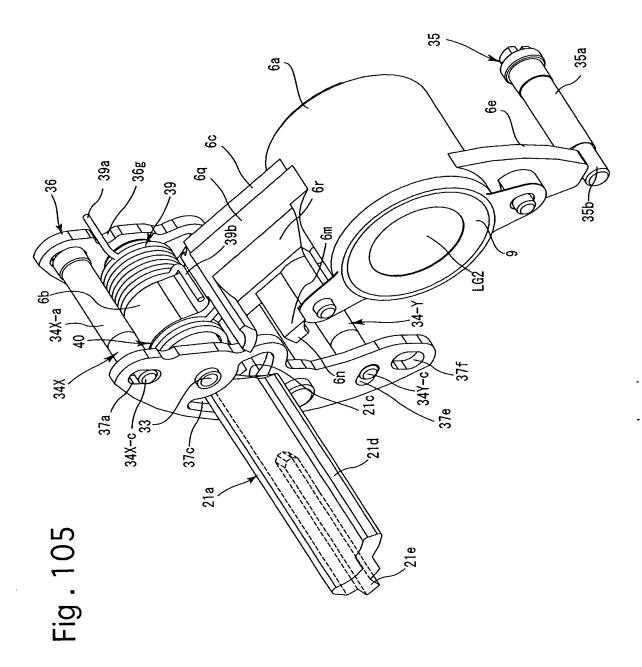












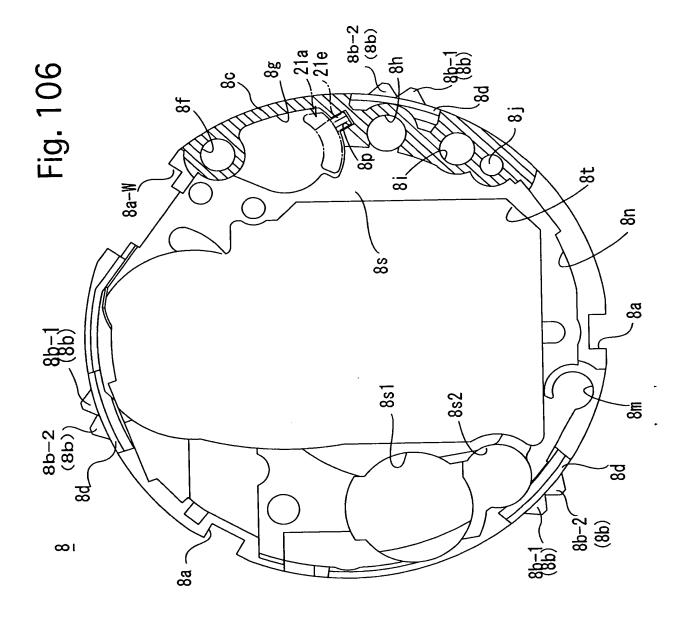
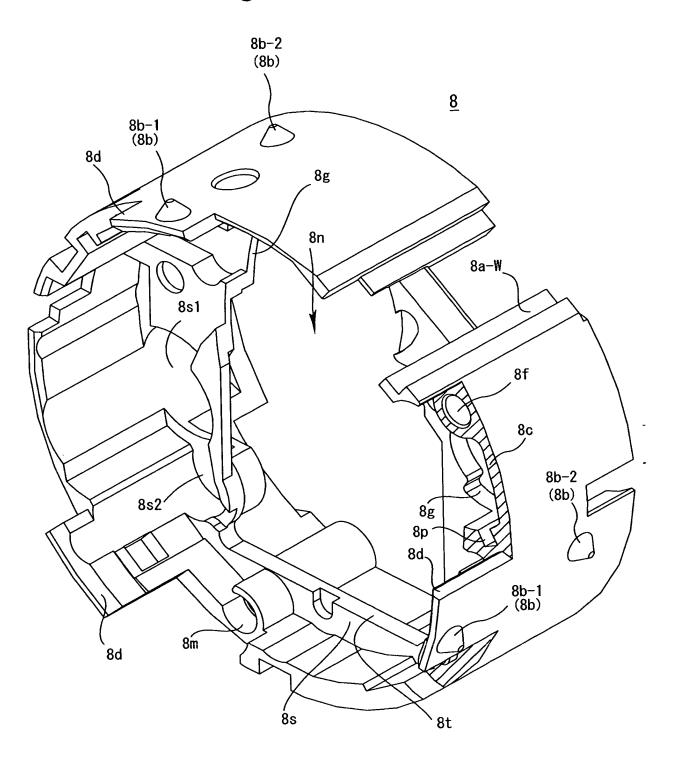


Fig. 107



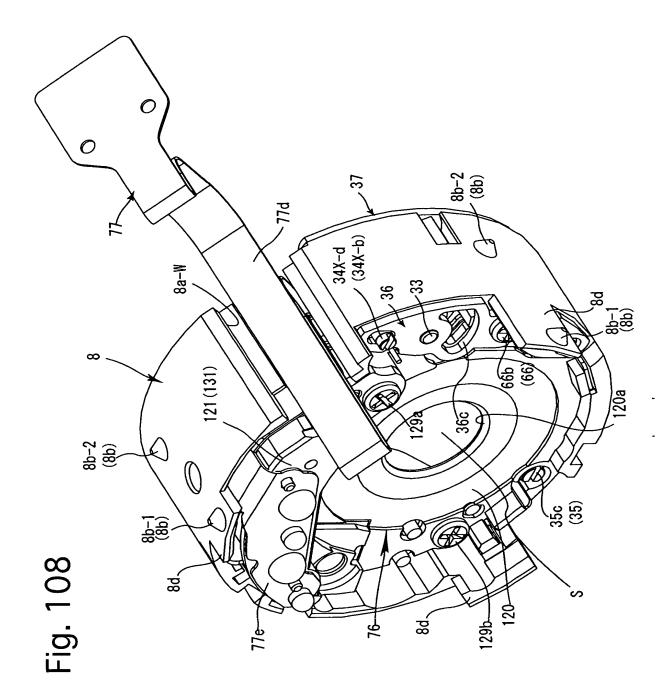


Fig. 110

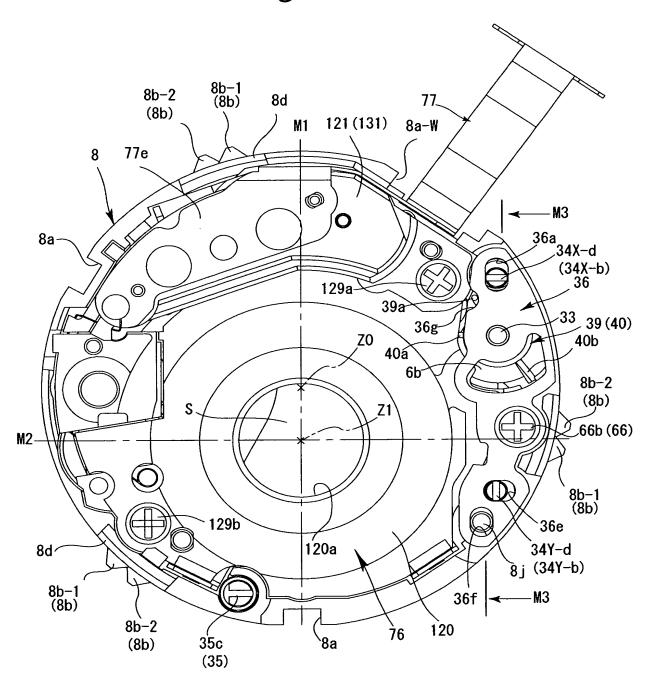


Fig. 111

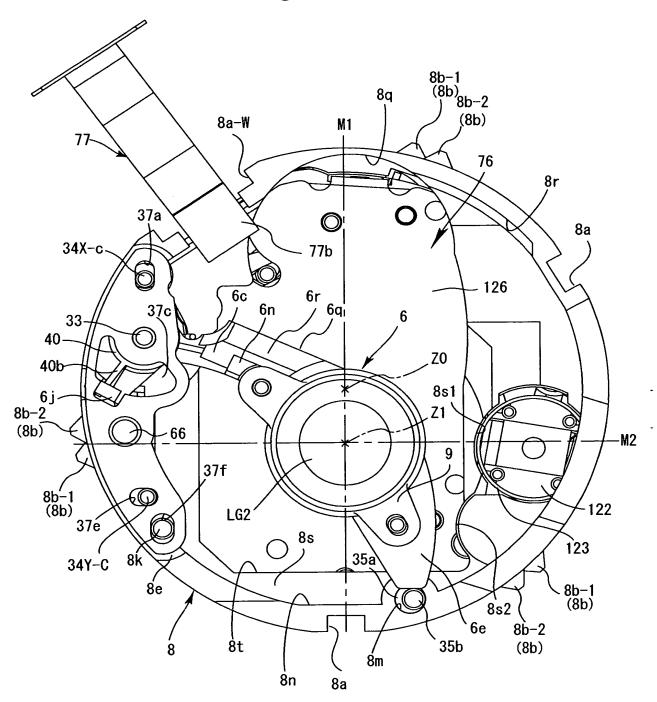


Fig. 112

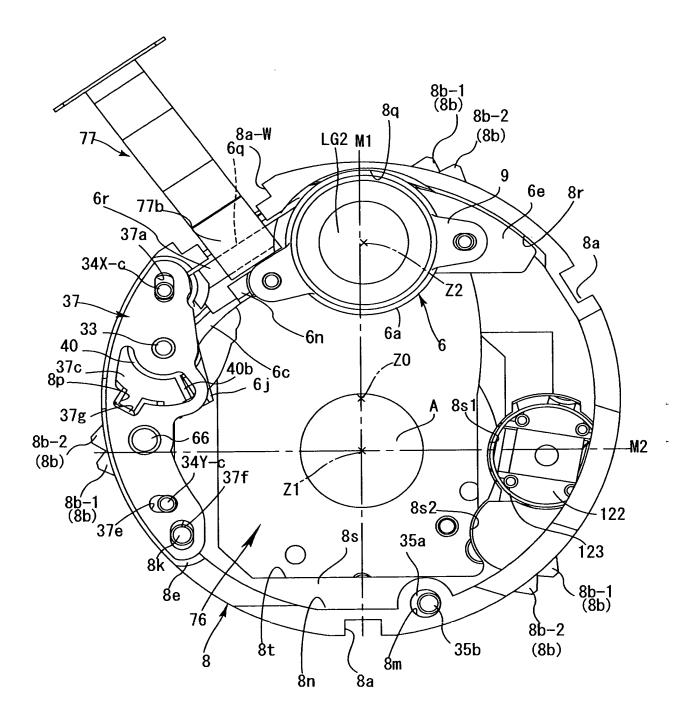
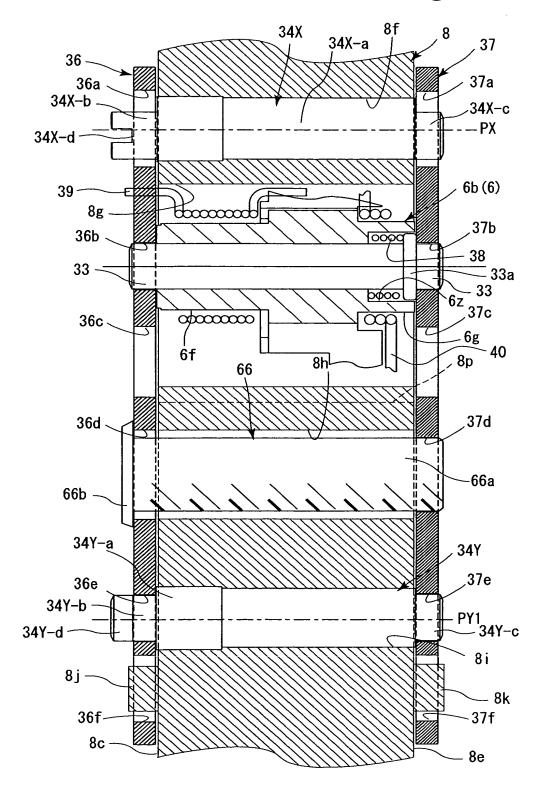
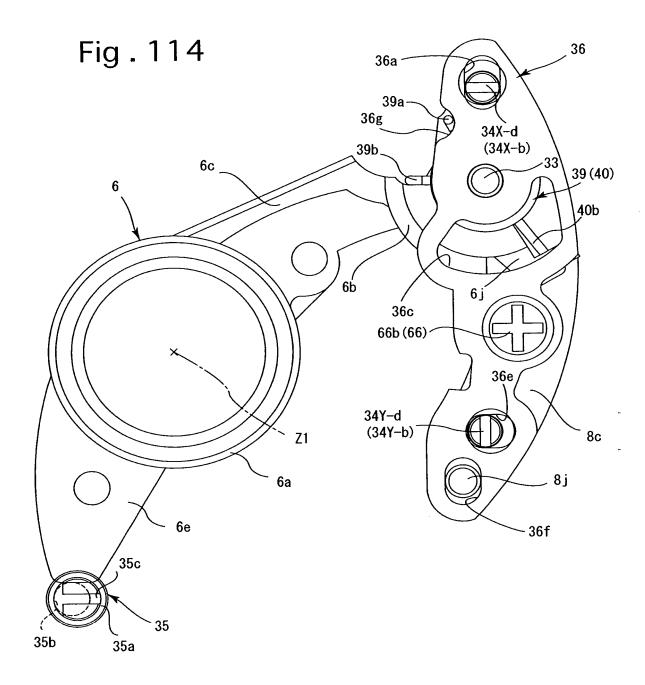
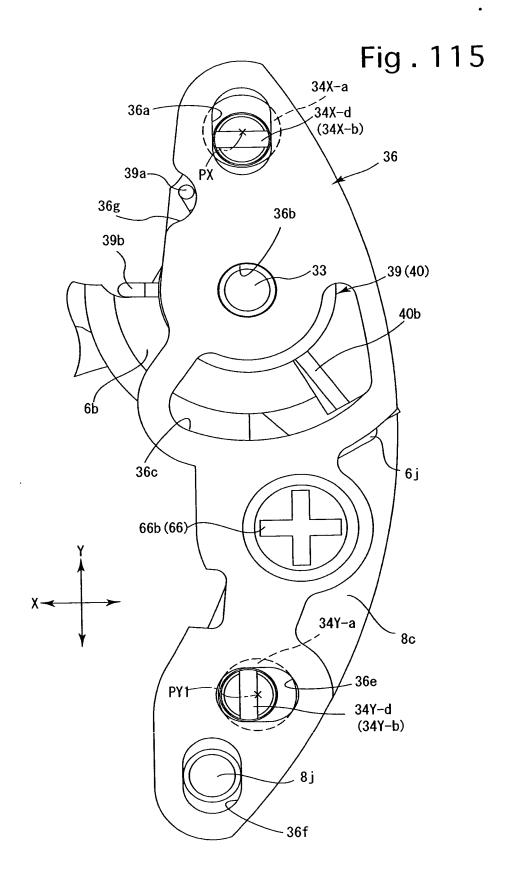


Fig.113







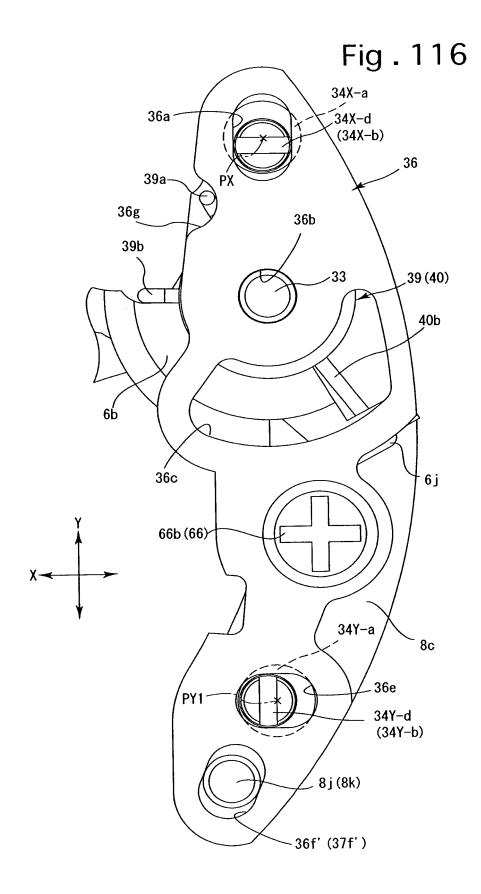
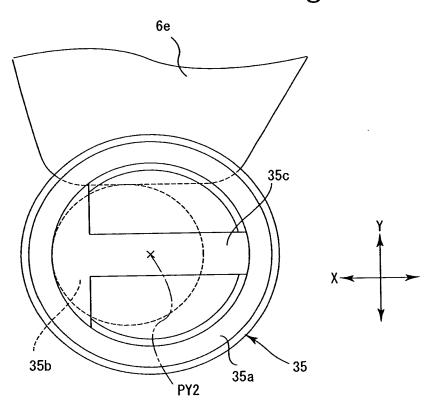
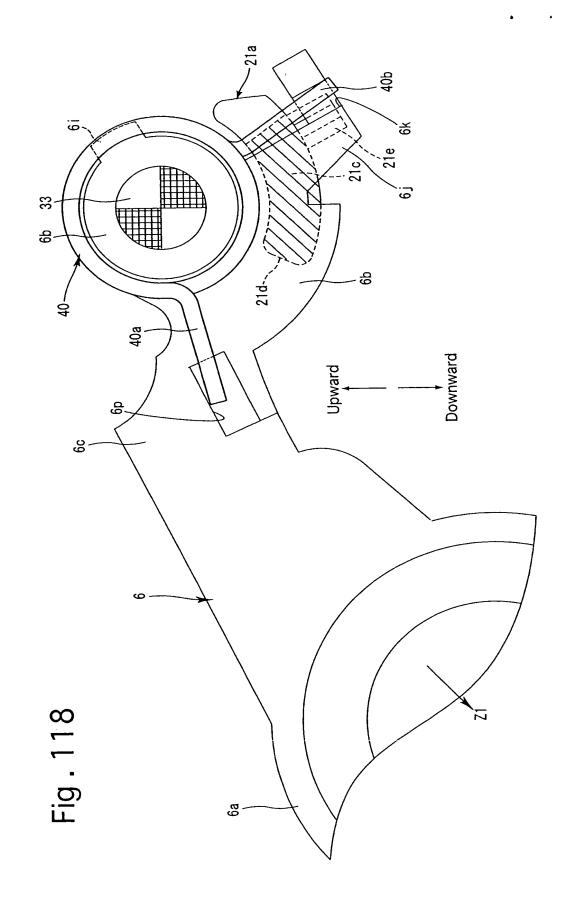
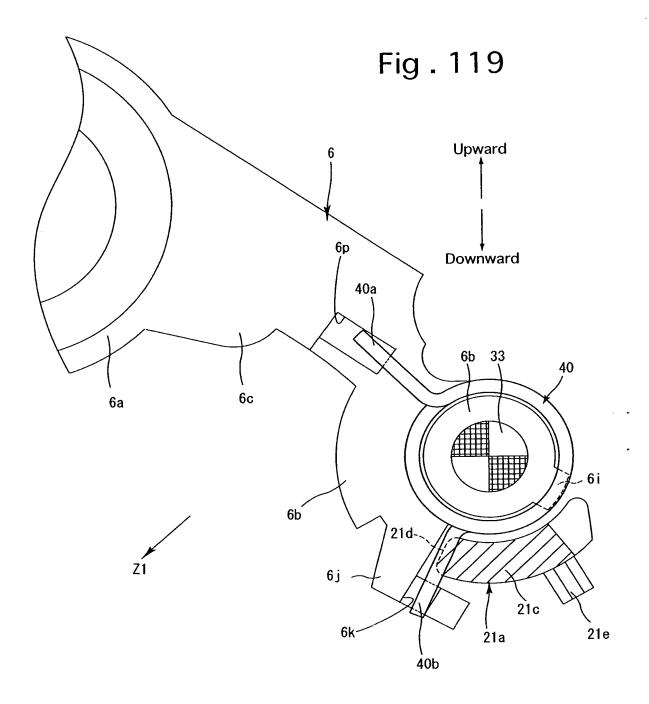
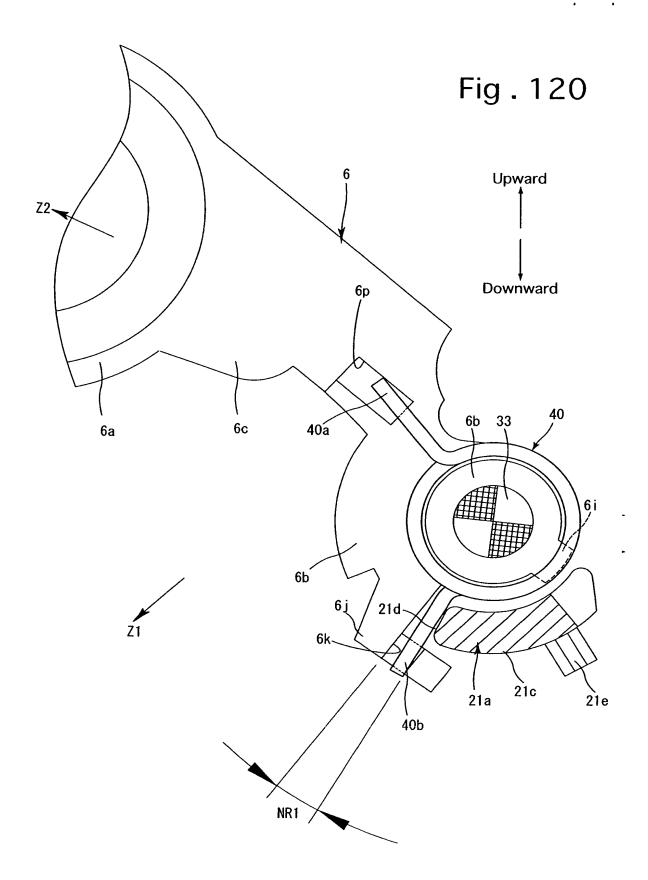


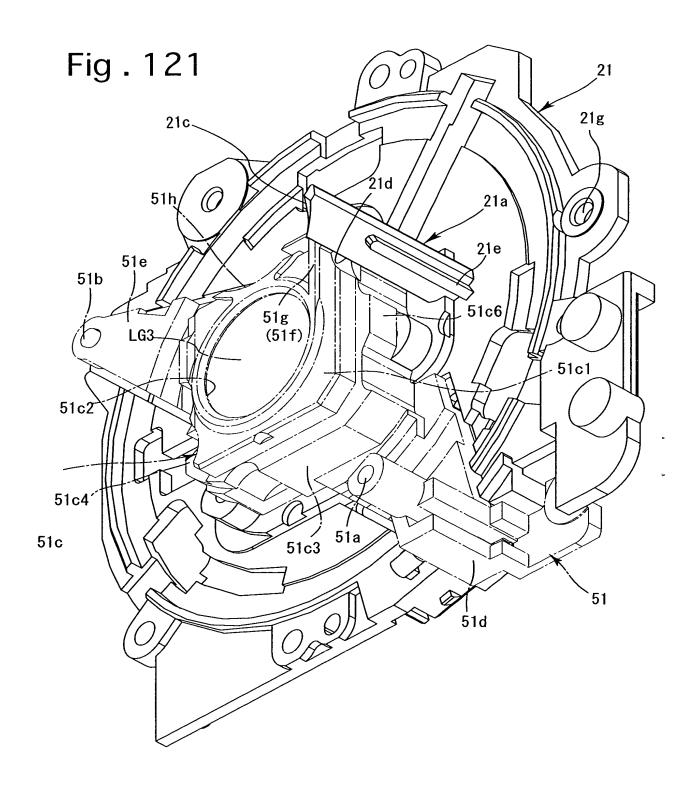
Fig . 117

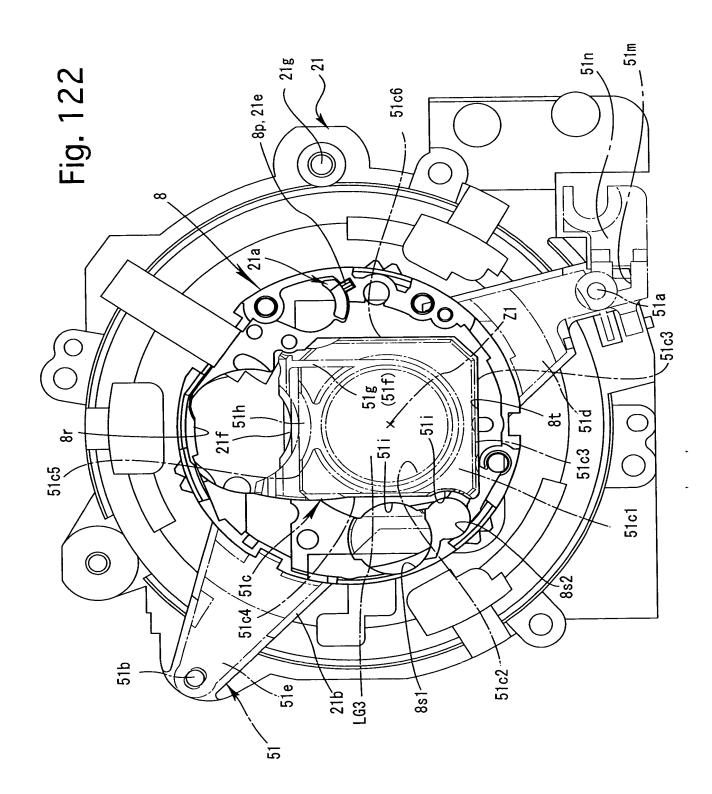


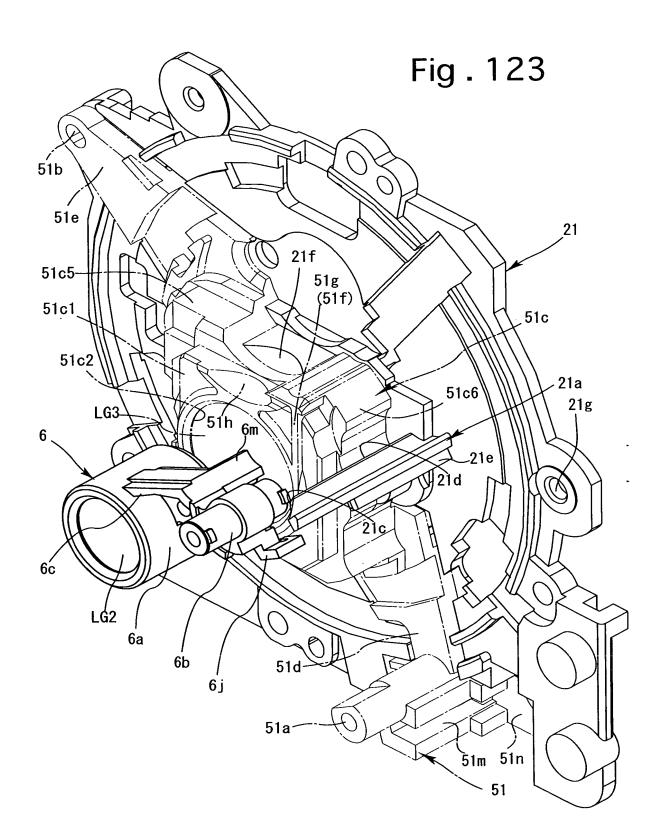


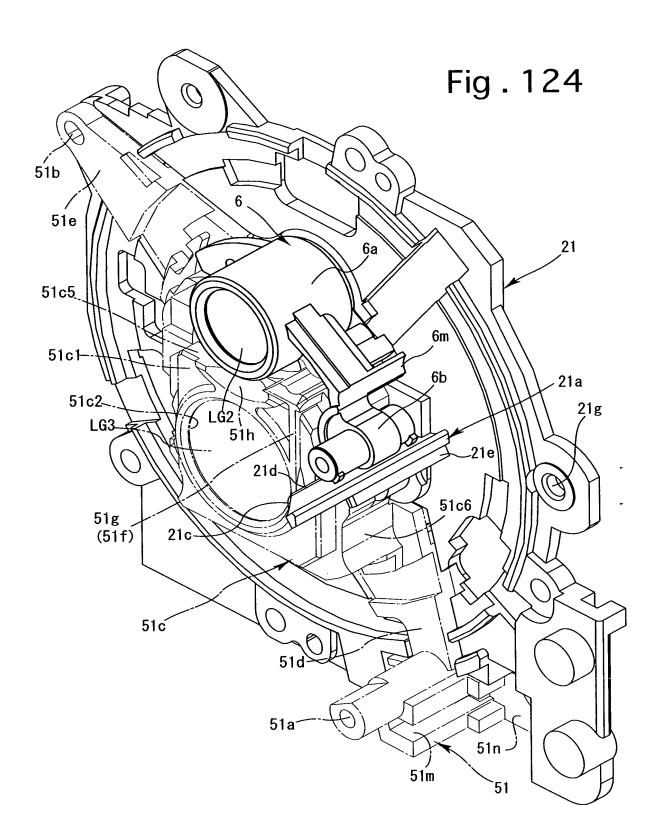












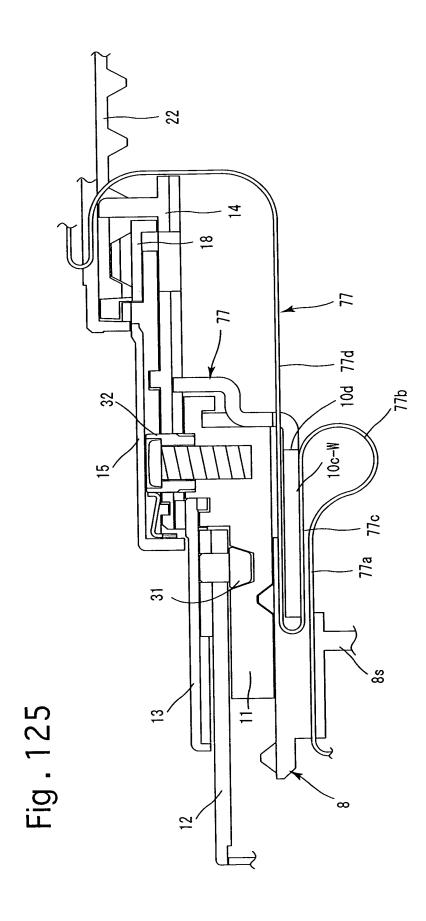
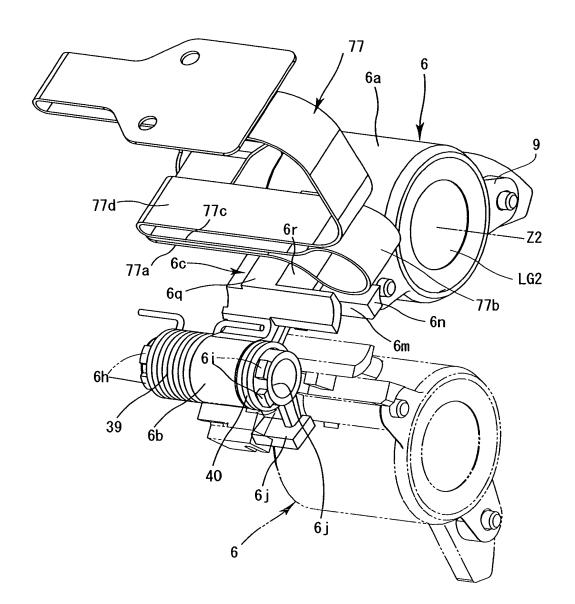
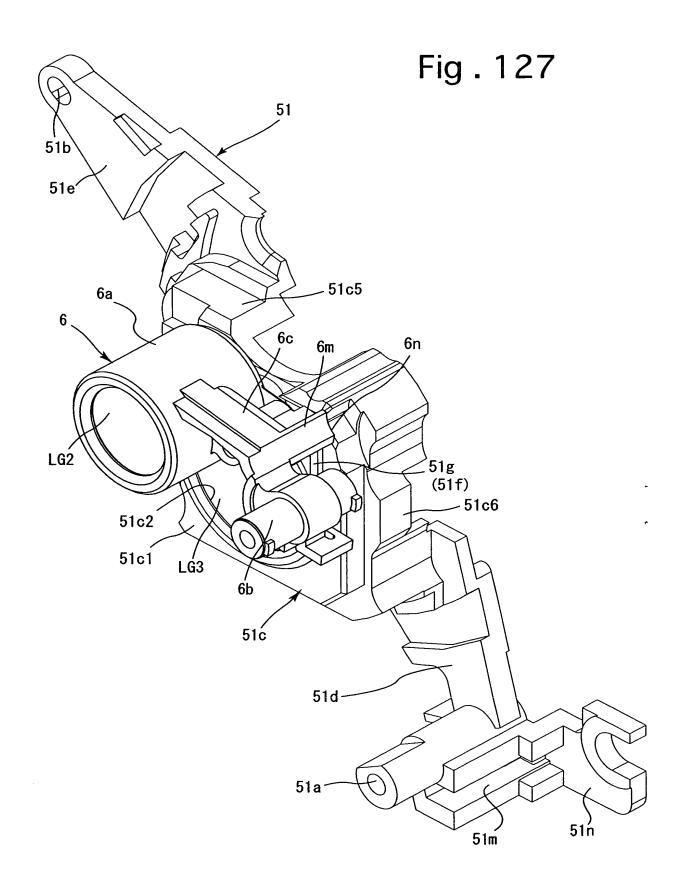
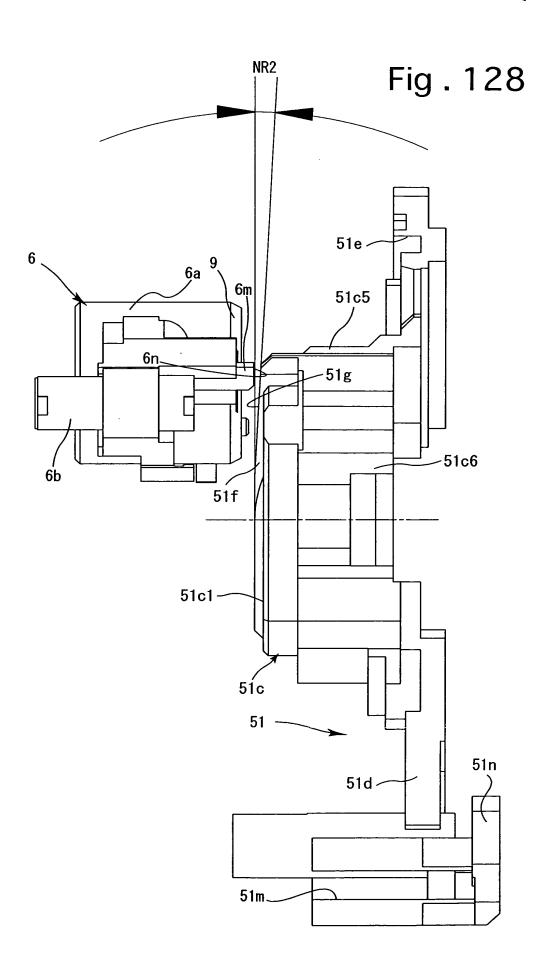
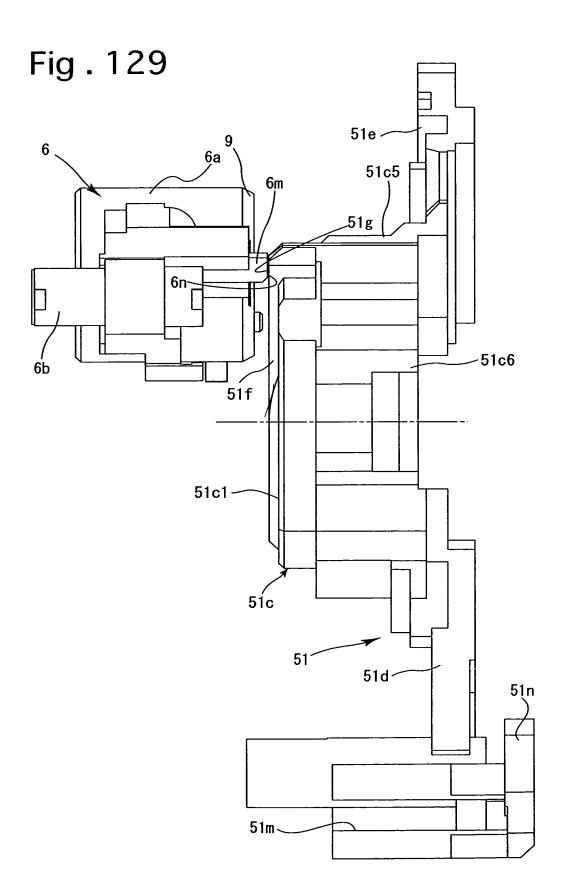


Fig. 126









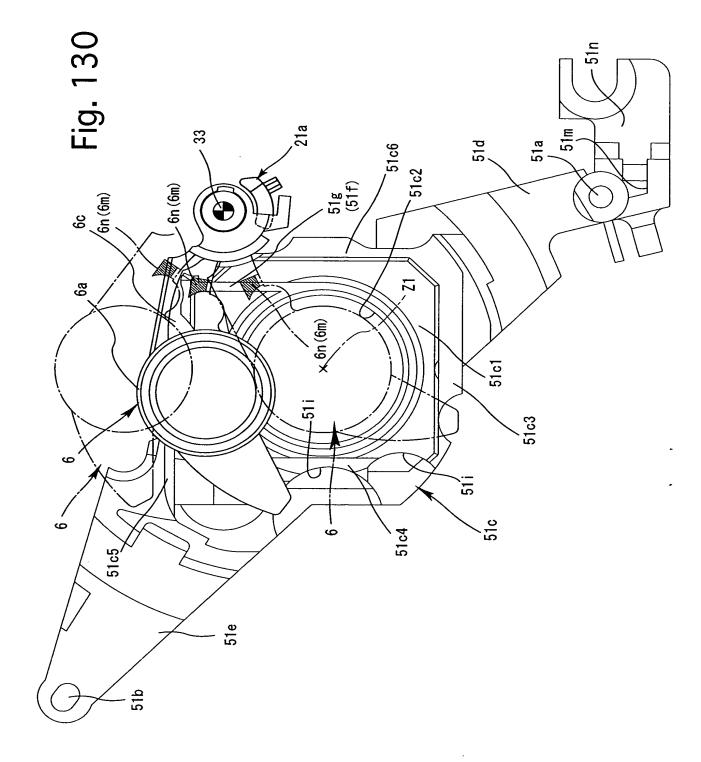


Fig. 131

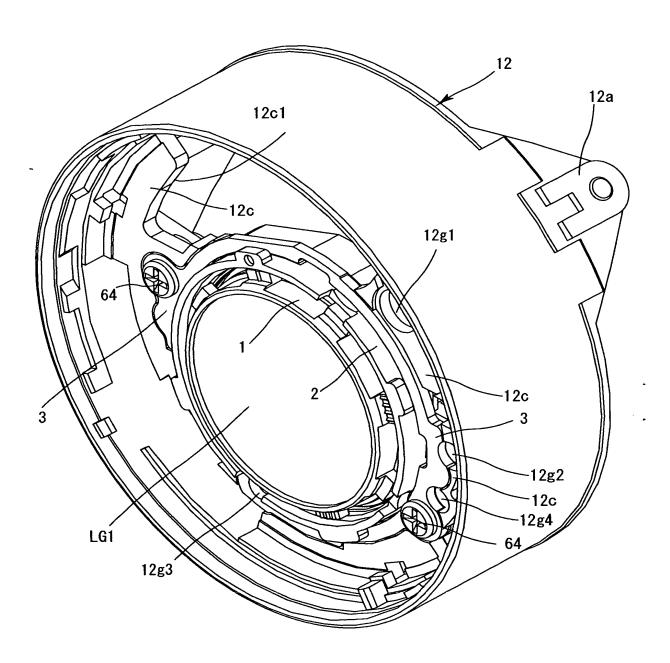
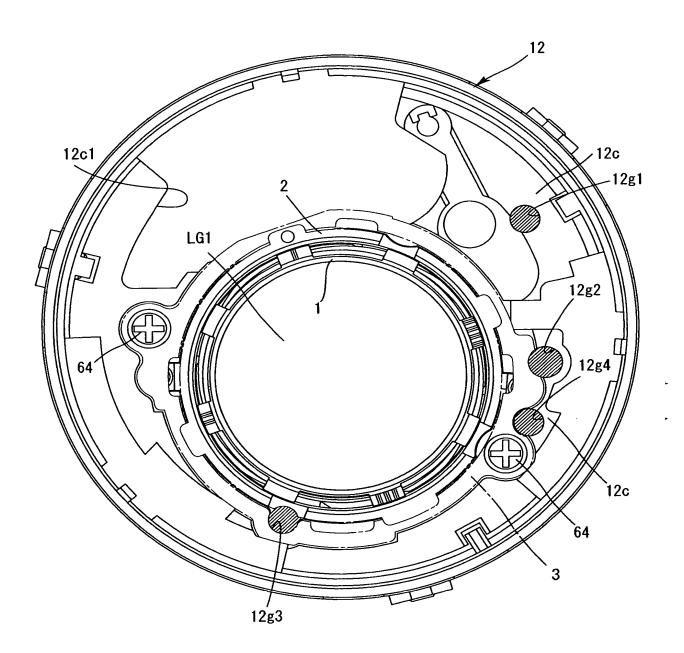
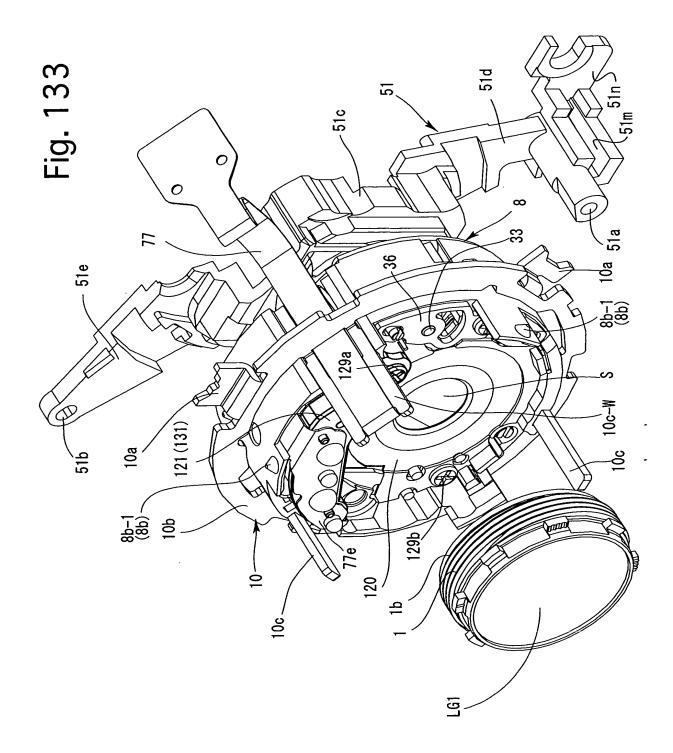


Fig. 132





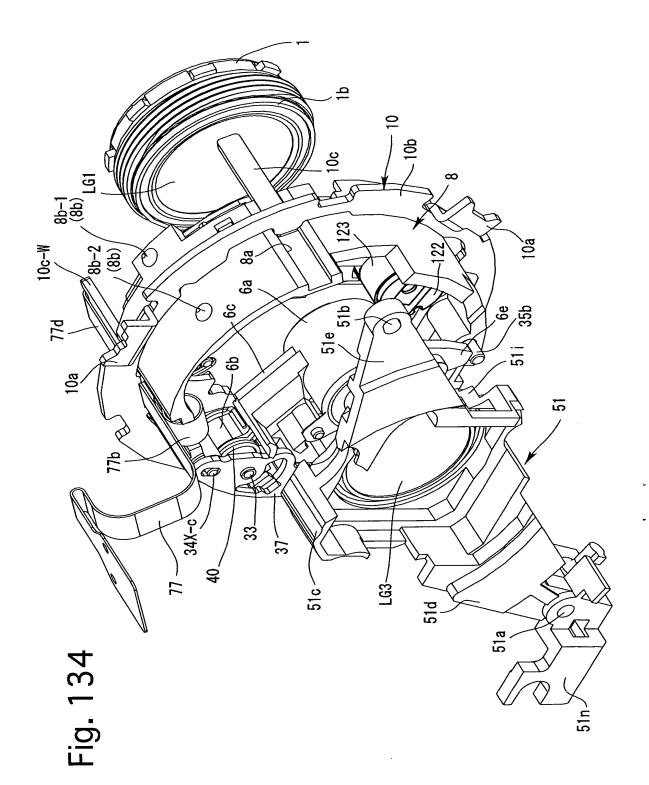


Fig. 135

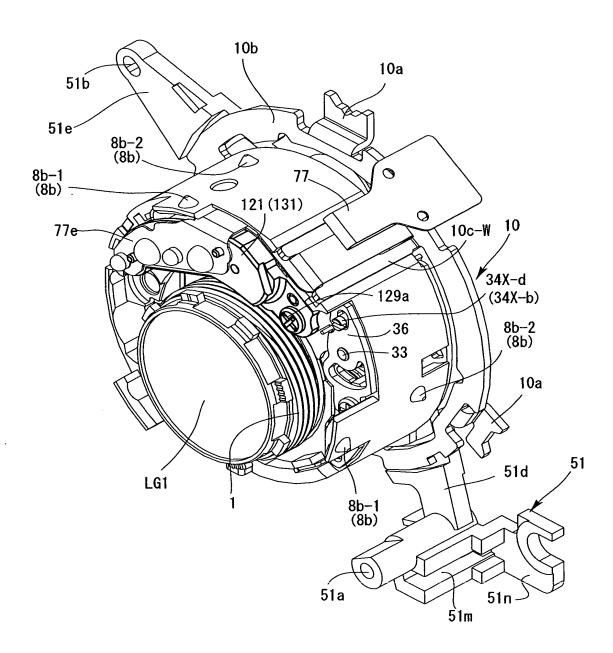


Fig. 136

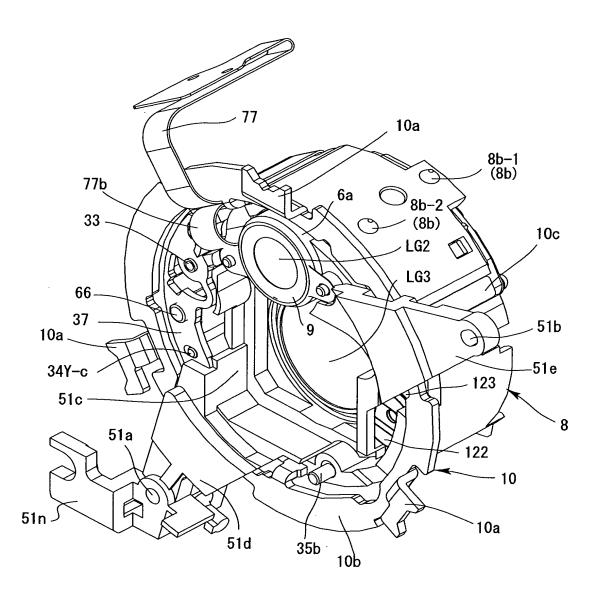


Fig. 137

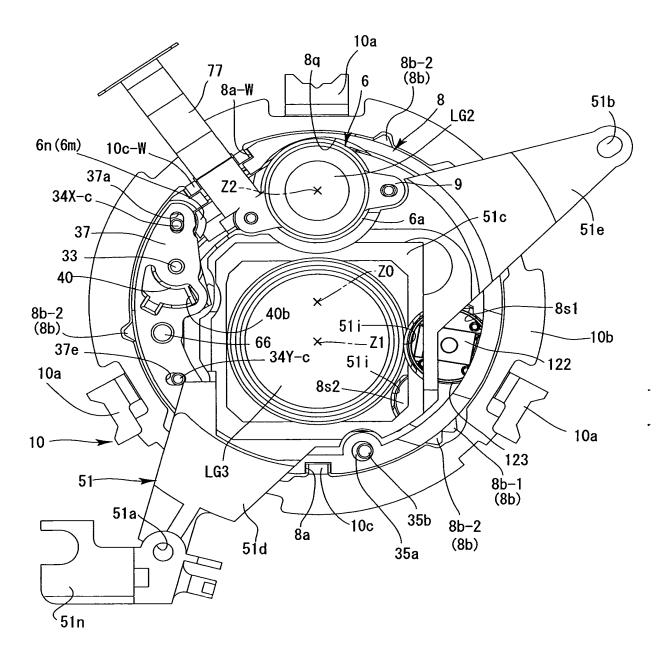


Fig. 138

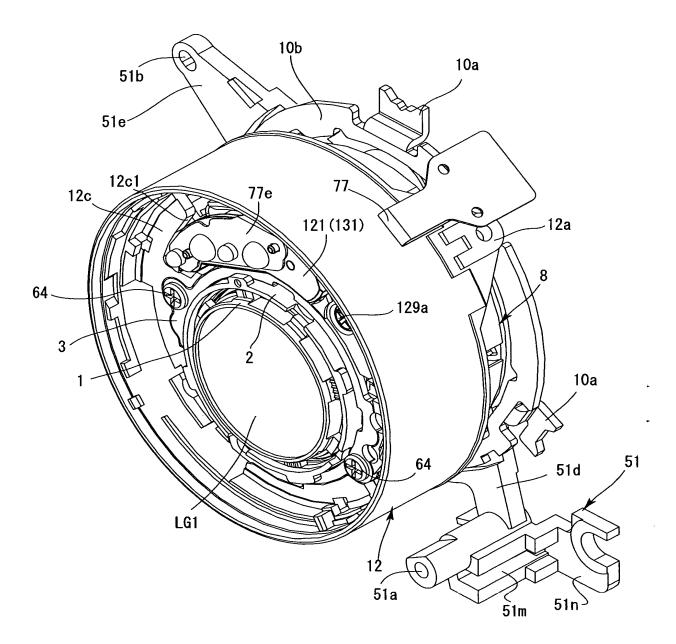
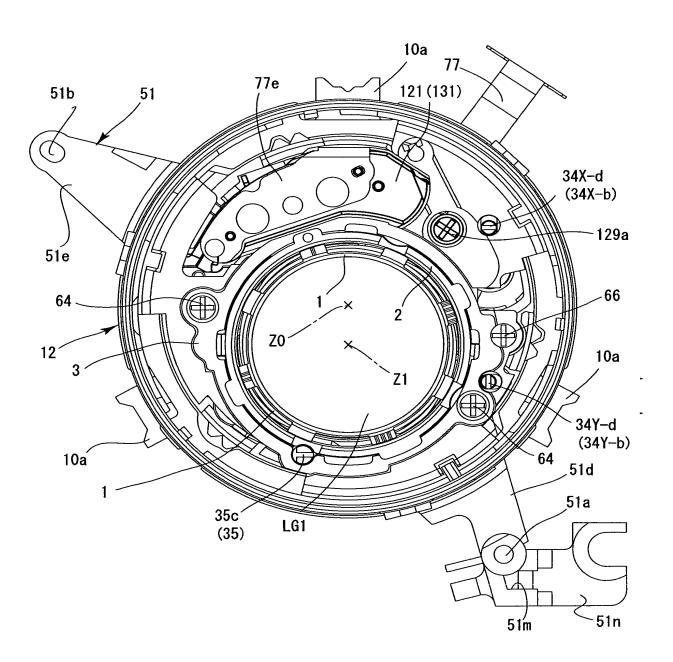
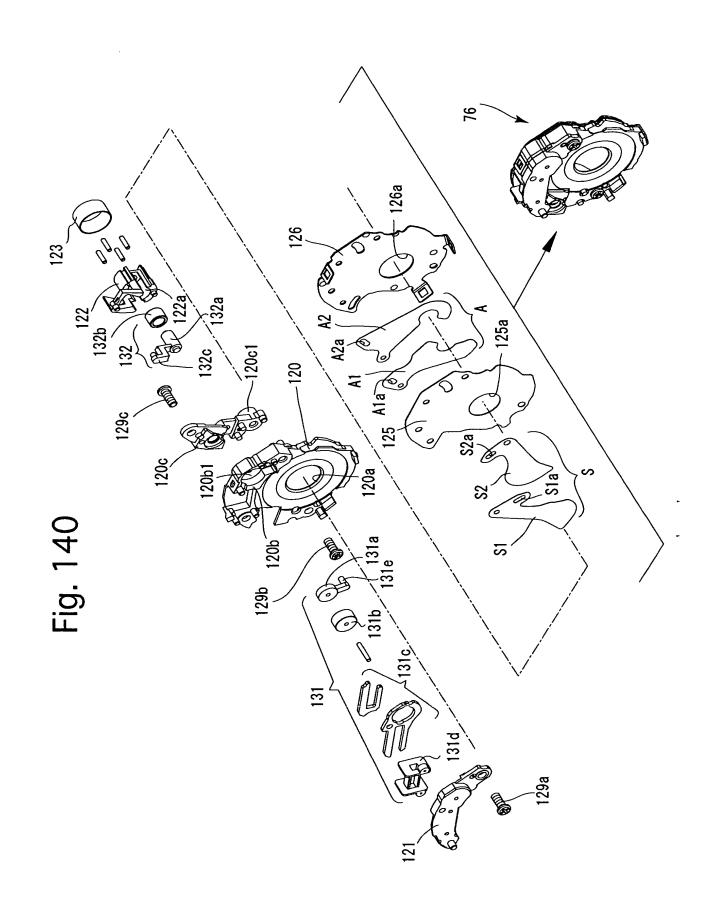
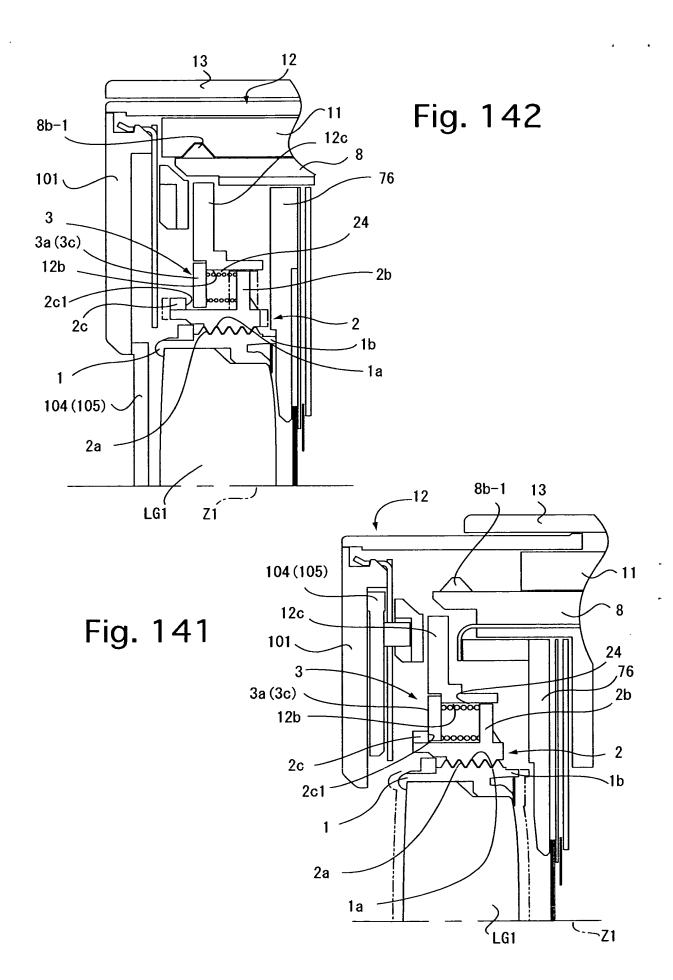
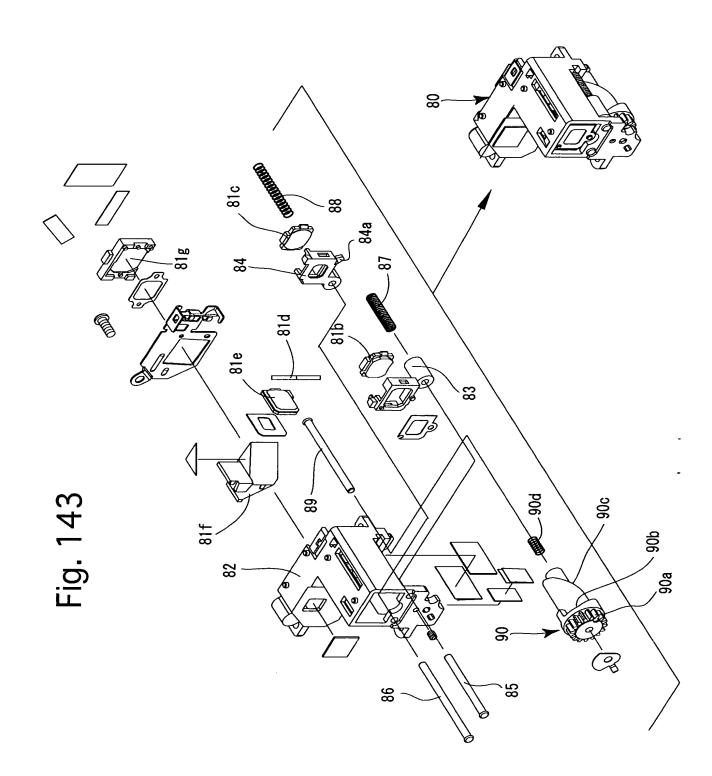


Fig. 139









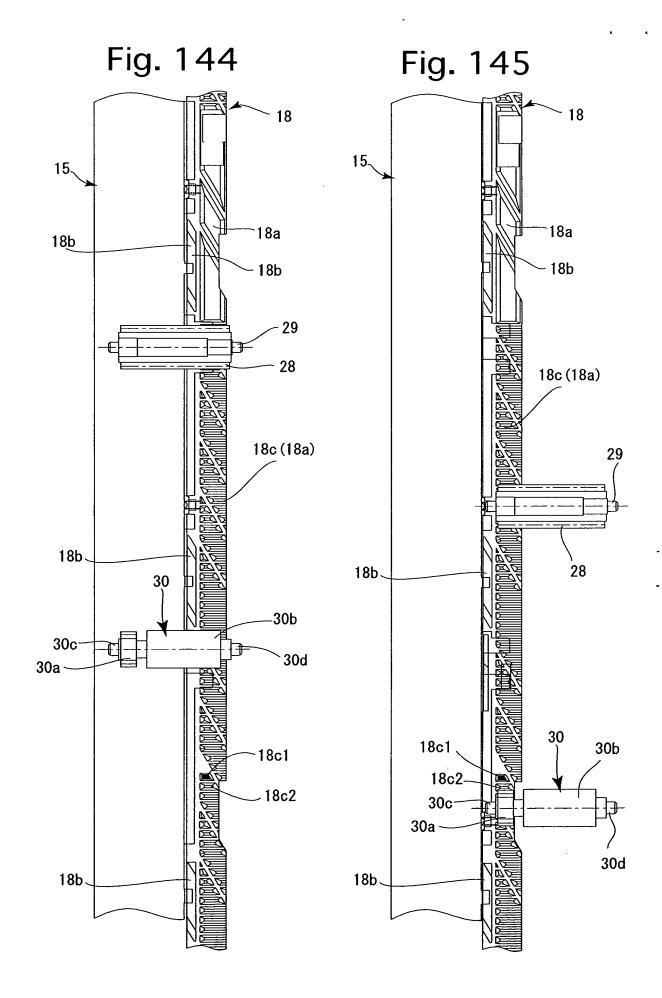
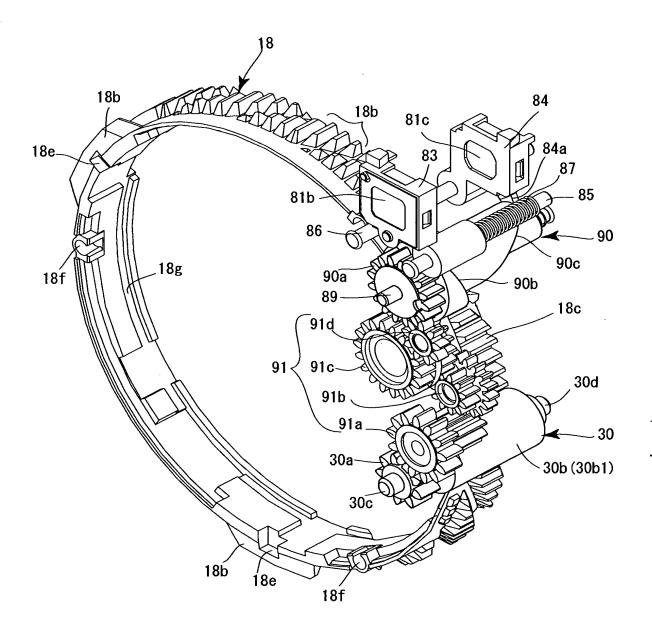


Fig. 146



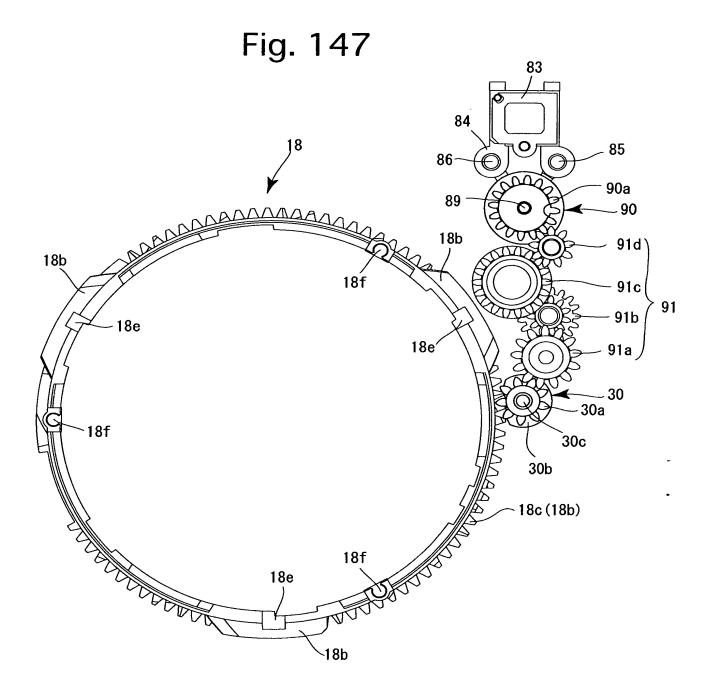
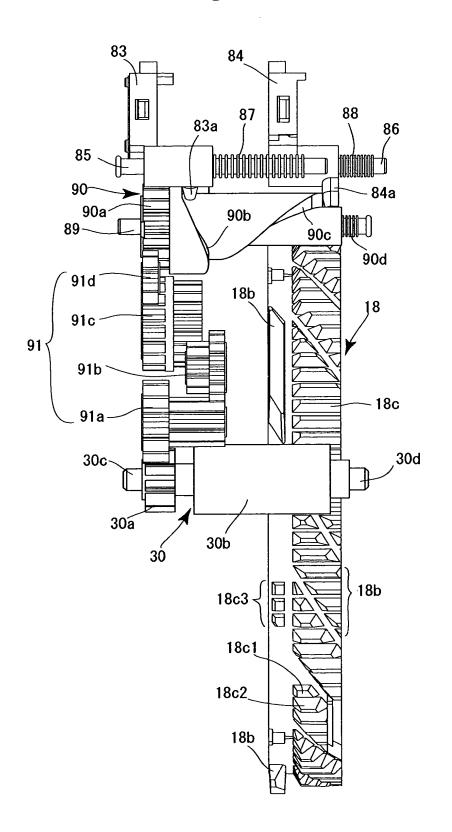
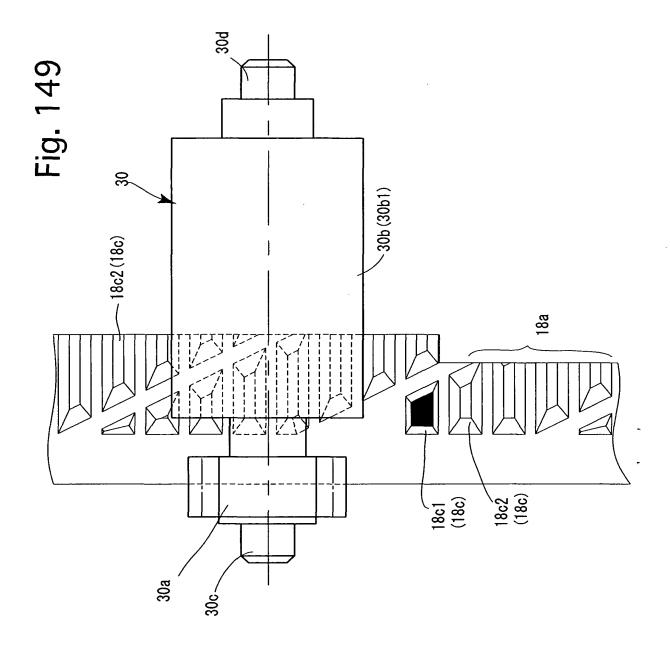
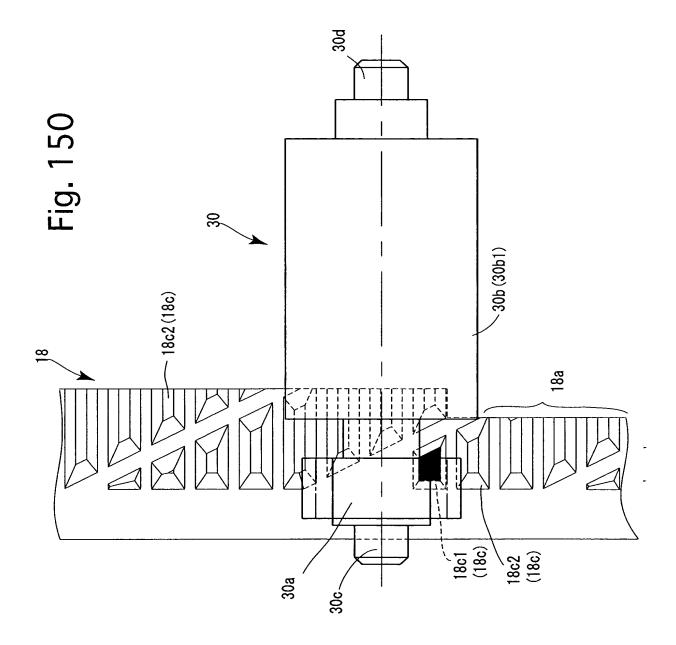
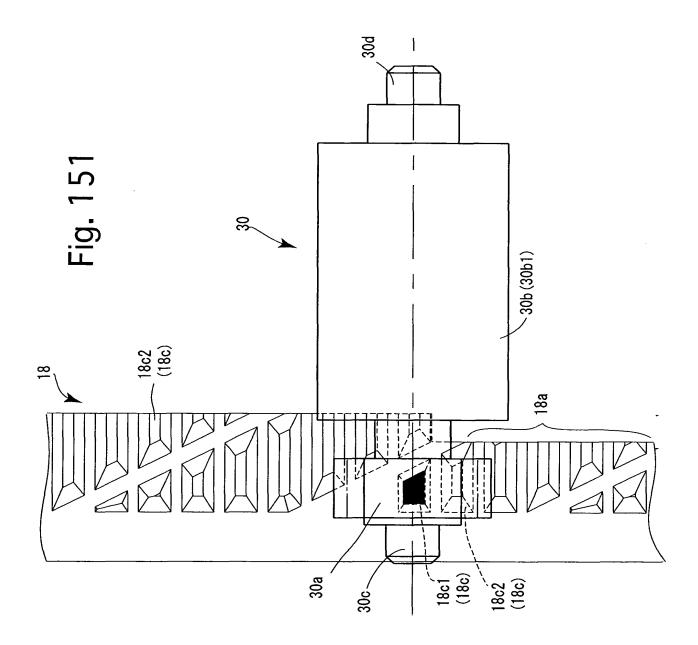


Fig. 148









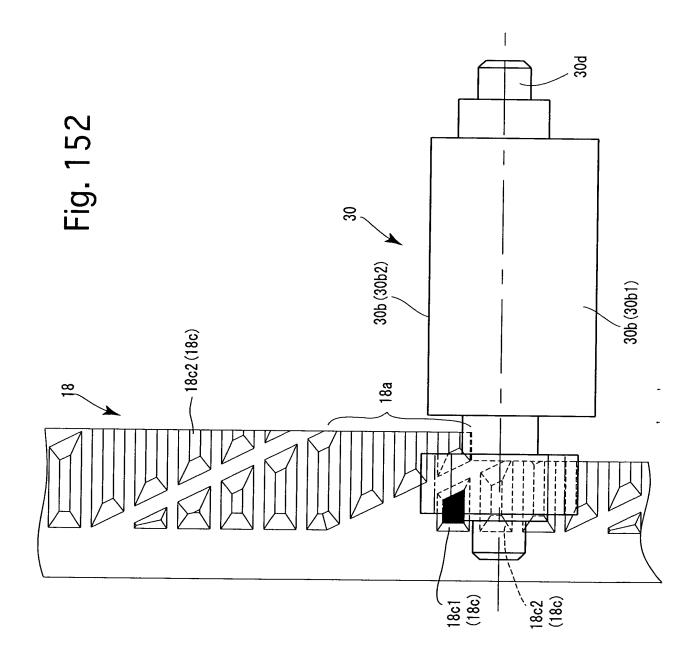


Fig. 153

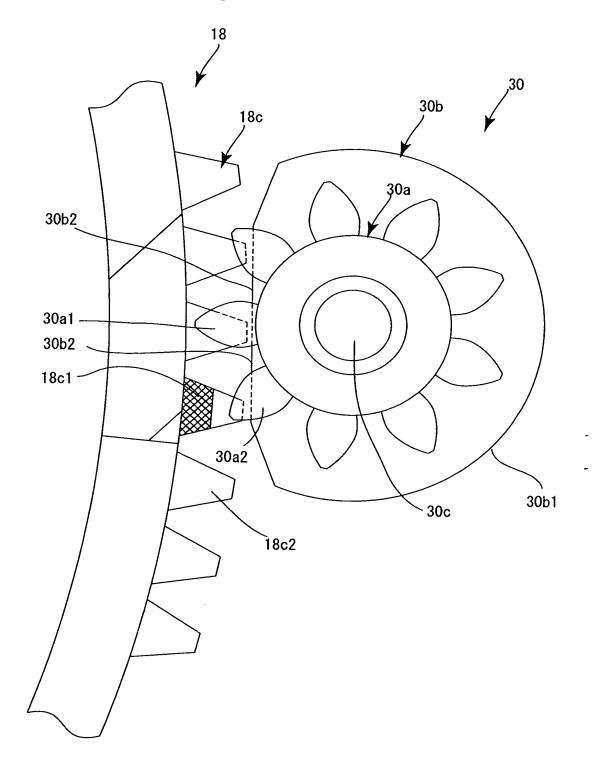


Fig. 154

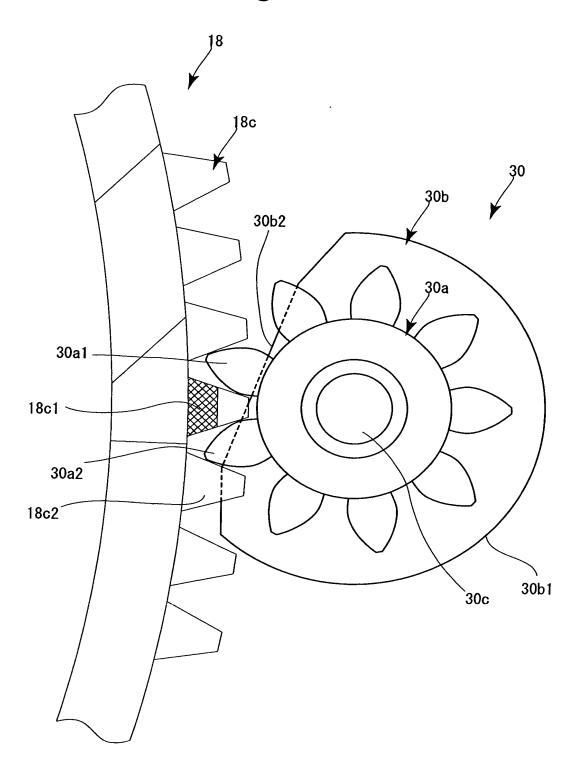


Fig. 155

